

### TrusTec<sup>™</sup> PRF Octane No. Blends 80-98

Version 1.13

Revision Date 2022-11-17

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2015/830

SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

#### **Product information**

Product Name	:	TrusTec™ PRF Octane No. Blends 80-98
Material	:	1024452, 1024451, 1024450, 1024448, 1024447, 1024446,
		1024444, 1024443, 1024442, 1024440, 1024439, 1024438,
		1024436, 1024435, 1024434, 1024432, 1024431, 1024430,
		1024428, 1024427, 1024426, 1024424, 1024423, 1024422,
		1024420, 1024419, 1024418, 1024416, 1024415, 1024414,
		1024412, 1024411, 1024410, 1024408, 1024407, 1024406,
		1024404, 1024403, 1024402, 1024400, 1024399, 1024398,
		1024396, 1024395, 1024394, 1024392, 1024391, 1024390,
		1024388, 1024384, 1024383, 1024382, 1024381, 1024380,
		1024379, 1024378, 1024341, 1024340, 1024339, 1024386,
		1024387, 1024453, 1024449, 1024445, 1024441, 1024437,
		1024433, 1024429, 1024425, 1024421, 1024342, 1024417,
		1024413, 1024409, 1024405, 1024401, 1024397, 1024393,
		1024389, 1024385

#### **EC-No.Registration number**

Chemical name	CAS-No.	Legal Entity
	EC-No.	Registration number
	Index No.	
2,2,4-Trimethylpentane	540-84-1	Chevron Phillips Chemicals International NV
(Isooctane)	208-759-1	01-2119457965-22-0002
	601-009-00-8	
2,2,4-Trimethylpentane	540-84-1	Chevron Phillips Chemical Company LP
(Isooctane)	208-759-1	01-2119457965-22-0013
	601-009-00-8	
n-Heptane	142-82-5	Chevron Phillips Chemicals International NV
	205-563-8	01-2119457603-38-0002
	601-008-00-2	
n-Heptane	142-82-5	Chevron Phillips Chemical Company LP
	205-563-8	01-2119457603-38-0002
	601-008-00-2	

1.2

Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses Supported	:	Formulation Use as a fuel - industrial Use as a fuel – professional

SDS Number:100000014260

tersion 1.13       Manufacture         Use as a laboratory agent – industrial       Use as a laboratory agent – industrial         Use as a laboratory agent – professional       Distribution         Use as a cleaning agent – industrial       Use as a cleaning agent – industrial         Use as a cleaning agent – professional       Use as a cleaning agent – industrial         Use as a cleaning agent – professional       Use as a cleaning agent – industrial         Use as a cleaning agent – professional       Use as a cleaning agent – industrial         Use as a cleaning agent – professional       Use as a cleaning agent – industrial         Use as a cleaning agent – professional       Use as a cleaning agent – industrial         Use as a cleaning agent – professional       Use as a cleaning agent – industrial         Use as a cleaning agent – consumer       Use as a cleaning agent – industrial         Use as a cleaning agent – professional       Use as a cleaning agent – professional         Use as a cleaning agent – consumer       Use as a cleaning agent – professional         Use as a cleaning agent – professional       No.         A       Company       : Chevron Phillips Chemicals International N.V.         Airport Plaza (Stockholm Building)       Leonardo Da Vincilaan 19         1832.013.4984 (International)       Transport:         Chewron Prite Stopp from commany       SDS Re	rusTec™ PRF O	SAFETY DATA SHEET ctane No. Blends 80-98
<ul> <li>Use as a laboratory agent – industrial Use in coatings – industrial Use in coatings – professional Use in coatings – professional Use as a cleaning agent – professional</li> <li>Use as a cleaning agent – professional</li> <li>Use as a cleaning agent – consumer</li> <li>Use as a cleaning agent – professional</li> <li>Use as a cleaning agent – professional</li> <li>Use as a cleaning agent – professional</li> <li>Use as a fuel – consumer</li> <li>SDS Requests: (800) 852-5530</li> <li>Responsible Party: Product Safety Group</li> <li>Email:sds@cpchem.com</li> <li>SDS Requests: (800) 852-5530</li> <li>Responsible Party: Product Safety Group</li> <li>Email:sds@cpchem.com</li> <li>Maxies OL-HEMTREC 800.424.9300 or 703.527.3887(int!)</li> <li>Asia: CHEMWATCH (Falt 2 9168 farzi): 0800.111.767 Outside Brazi: +55.19.3467.1600</li> <li>Argentina: +(54)-1150839431</li> <li>EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)</li> <li>Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)</li> <li>Bulgaria: +359 2 9164 233</li> <li>Croatia: +3851 2348 342 (24 hours/day, 7 days/week)</li> <li>Bulgaria: +355 2 348 342 (24 hours/day, 7 days/week)</li> <li>Bulgaria: +355 2 348 342 (24 hours/day, 7 days/week)</li></ul>		Revision Date 2022-11-1
Company : Chevron Phillips Chemical Company LP Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380 Local : Chevron Phillips Chemicals International N.V. Airport Plaza (Stockholm Building) Leonardo Da Vincilaan 19 1831 Diegem Belgium SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com 4 Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l) Asia: CHEMWATCH (+612.9186.1132) China: 0532.8388.9090 Mexico CHEMTREC 01.800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 Argentina: +(54)-1159839431 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: +3851.2348 342 (24 hours/day, 7 days/week) Belgium: 070.245.245 (24 hours/day, 7 days/week) Belgium: 070.245.245 (24 hours/day, 7 days/week) Bulgaria: +3351.2348 342 (24 hours/day, 7 days/week) Bulgaria: +3351.2348 342 (24 hours/day, 7 days/week) Cyprus: 1401 Czech Republic: Toxicological Information Center +420.224 919.293, +420.224 915.402 Denmark: Danish Poison Center (Giftlinjen): +45.8212.1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Frinanci 0800 147.111.09.471.977 (24 hours/day, 7 days/week) Bulgaria: +1351.2348.342 (24 hours/day, 7 days/week) Bulgaria: Big +32.14.584545 (phone) or +32.14583516 (telefax) Frinanci 0800 147.111.09.471.977 (24 hours/day, 7 days/week) Grence: (0030) 2107793777 (24 hours/day, 7 days/week) Germary: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Frinanci 0800 147.111.09.471.977 (24 hours/day, 7 days/week) Germary: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Frinanci 0800 147.111.09.471.977 (24 hours/day, 7 days/week) Germary: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Frinanci 0800 147.017793777 (24 hours/day, 7 days/week)		Use as a laboratory agent – industrial Use as a laboratory agent – professional Distribution Use in coatings – industrial Use in coatings – professional Use as a cleaning agent – industrial Use as a cleaning agent – professional Use as a cleaning agent – consumer Use in Coatings - Consumer
Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380 Local : Chevron Phillips Chemicals International N.V. Airport Plaza (Stockholm Building) Leonardo Da Vincilaan 19 1831 Diegem Belgium SDS Requests: (800) 852-5530 Responsible Party: Product Safety Group Email:sds@cpchem.com 4 Emergency telephone: Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l) Asia: CHEMWATCH (+612 9168 1132) China: 0532 8388 9090 Mexico CHEMTREC 01-800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 0532 63888 9090 Mexico CHEMTREC 01-800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 1000.111.767 Outside Brazil: +55.19.3467.1600 Argentina: +(54)-1159839431 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +3385 12348 342 (24 hours/day, 7 days/week) Cyprus: 1401 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: 806 147.111 09 471 977 (24 hours/day, 7 days/week) Grienai: 0800 147 111 09 471 977 (24 hours/day, 7 days/week) Grienai: 0800 147 111 09 471 977 (24 hours/day, 7 days/week) Grienai: 0801 147 111 09 471 977 (24 hours/day, 7 days/week) Grienai: 0801 147 111 09 471 977 (24 hours/day, 7 days/week) Grienai: 0801 147 111 09 471 977 (24 hours/day, 7 days/week) Grienai: 0801 147 111 09 471 977 (24 hours/day, 7 days/week) Grienai: 0801 147 110 94 71 977 (24 hours/day, 7 days/week) Grienai: 0801 147 110 94 71 977 (24 hours/day, 7 days/week) Grienai: 0801 147 110 94 71 977 (24 hours/day, 7 days/week) Grienai: 0801 147 110 94 71 977 (24 hours/day, 7 days/week) Gerece: (0030) 21077937777 (24 hours/day, 7 days/week)		er of the safety data sheet
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Emergency telephone:         Health:         866.442.9628 (North America)         1.832.813.4984 (International)         Transport:         CHEMTREC 800.424.9300 or 703.527.3887(int'l)         Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090         Mexico CHEMTREC 01-800-681-9531 (24 hours)         South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600         Argentina: +(54)-1159839431         EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)         Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)         Belgium: 070 245 245 (24 hours/day, 7 days/week)         Bulgaria: +359 2 9154 233         Croatia: +3851 2348 342 (24 hours/day, 7 days/week)         Cyprus: 1401         Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402         Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212         Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)         Finland: 0800 147 111 09 471 977 (24 hours/day)         France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)         Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)         Finland: 0800 147 111 09 471 977 (24 hours/day)         France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)         Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) <td></td> <td>Responsible Party: Product Safety Group</td>		Responsible Party: Product Safety Group
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### TrusTec<sup>™</sup> PRF Octane No. Blends 80-98

#### Version 1.13

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Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week) Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week) Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Portugal: CIAV phone number: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 - ask for Poisons Information Responsible Department Product Safety and Toxicology Group : E-mail address SDS@CPChem.com

www.CPChem.com

#### **SECTION 2: Hazards identification**

#### 2.1

Website

# Classification of the substance or mixture REGULATION (EC) No 1272/2008

Flammable liquids, Category 2

Skin irritation, Category 2

Specific target organ toxicity - single exposure, Category 3, Central nervous system Aspiration hazard, Category 1

Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H225: Highly flammable liquid and vapor. H315: Causes skin irritation. H336: May cause drowsiness or dizziness.

H304: May be fatal if swallowed and enters airways. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

#### 2.2

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		
Signal Word	:	Danger	
Hazard Statements	:	H225 H304	Highly flammable liquid and vapor. May be fatal if swallowed and enters airways.
		H315	Causes skin irritation.
		H336	May cause drowsiness or dizziness.
SDS Number:100000014260			3/139

<b>JSTec™ PRF OC</b> sion 1.13			5-30		
				Revis	sion Date 2022-11
	H41	0	Very toxic effects.	to aquatic life wi	ith long lasting
Precautionary Stateme	P210 P273 <b>Res</b> P300 P333	3 <b>ponse:</b> 1 + P310 1 0 + P378	open flam smoking. Avoid rele IF SWALL POISON 0 Do NOT in In case of	es and other igni ase to the enviro OWED: Immedia CENTER/ doctor. Iduce vomiting. fire: Use dry san oresistant foam to	ately call a nd, dry chemical
Hazardous ingredients <ul> <li>540-84-1</li> <li>142-82-5</li> </ul>	which must be 2,2,4-Trimeth n-Heptane				
Other hazards Results of PBT and vP assessment	PvB :	considered toxic (PBT	d to be either		
- 3.2	information or	n ingredient	S		
- 3.2	: Prim	n ingredient ary Referenci ane Referenci	ce Fuel		
- 3.2 ostance or Mixture Synonyms Molecular formula	: Prim Octa : Mixte	ary Referen	ce Fuel		
- 3.2 ostance or Mixture Synonyms Molecular formula Hazardous ingredient Chemical name	: Prim Octa : Mixte	ary Referenci ine Referenci ure Class (REGULA No 12	ce Fuel ce Fuel ification ATION (EC) 72/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
Molecular formula Hazardous ingredient	: Prim Octa : Mixtu <b>s</b> CAS-No. EC-No.	ary Reference ine Reference ure (REGULA No 12 Flam. Liq. Skin Irrit. 2 STOT SE Asp. Tox.	ce Fuel ce Fuel ification ATION (EC) 72/2008) 2; H225 2; H315 3; H336 1; H304 cute 1; H400		Limits, M-factors

Tru	usTec™ PRF Octa	ane N	o. B	lends 80-98	SA	FETY DATA SHEET
Ver	sion 1.13				Revis	sion Date 2022-11-17
				Aquatic Chronic 1; H410		
	For the full text of the H-	Stateme	nts me	entioned in this Section,	see Section 16.	
SEC	CTION 4: First aid measu	ures				
4.1	Description of first-aid	measu	es			
	General advice	:	sheet	out of dangerous area. to the doctor in attenda us, potentially fatal pneu	nce. Material ma	ay produce a
	If inhaled	:		ult a physician after sign in recovery position and		
	In case of skin contact	:		n irritation persists, call a vater. If on clothes, rem		skin, rinse well
	In case of eye contact	:	lense	eyes with water as a pr s. Protect unharmed ey g. If eye irritation persis	e. Keep eye wid	e open while
	If swallowed	:	an un	respiratory tract clear. I conscious person. If sy victim immediately to ho	mptoms persist,	
4.2	Most important sympto Notes to physician	ms and	effect	s, both acute and dela	yed	
	Symptoms	:	No da	ata available.		
4.3	Risks Indication of any immed	: diate me		ata available. attention and special t	reatment neede	d
	Treatment	:	No da	ata available.		
SEC	CTION 5: Firefighting me	asures				
	Flash point	:		(18°F) od: Tag closed cup		
	Autoignition temperature	:	No da	ata available		
5.1	Extinguishing media					
	Suitable extinguishing media	:	Alcoh	ol-resistant foam. Carbo	on dioxide (CO2)	. Dry chemical.
	Unsuitable extinguishing media	:	High	volume water jet.		
5.2	Special hazards arising Specific hazards during f fighting			ot allow run-off from fire	fighting to enter o	drains or water
SDS	S Number:100000014260			5/1	139	

Tru	usTec™ PRF Octane N	SAFETY DATA SHEET
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5.3	Advice for firefighters Special protective : equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.
	Further information :	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
	Fire and explosion : protection	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
	Hazardous decomposition : products	Carbon oxides.
SEC	CTION 6: Accidental release me	asures
6.1		
0.1	Personal precautions, protection	ive equipment and emergency procedures
	Personal precautions :	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
6.2	Environmental precautions	
	Environmental precautions :	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3	Methods and materials for cor Methods for cleaning up :	Atainment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
6.4	<b>Reference to other sections</b> For additional details, see the Ex	posure Scenario in the Annex portion
SEC	CTION 7: Handling and storage	
7.1	Precautions for safe handling Handling	
	Advice on safe handling :	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see
SDS	S Number:100000014260	6/139

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	section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	: Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
7.2 Conditions for safe storage	, including any incompatibilities
Storage	
Requirements for storage areas and containers	<ul> <li>No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.</li> </ul>

### SECTION 8: Exposure controls/personal protection

#### 8.1

Γ

#### Control parameters Ingredients with workplace control parameters

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Zložky	Podstata	Hodnota	Kontrolné parametre	Poznámka
2,2,4-Trimethylpentane (Isooctane)	SK OEL	NPEL krátkodobý	300 ppm, 1.400 mg/m3	
	SK OEL	NPEL priemerný	200 ppm, 900 mg/m3	
n-heptane	SK OEL	NPEL priemerný	500 ppm, 2.085 mg/m3	
SI				
Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
2,2,4-Trimethylpentane (Isooctane)	SI OEL	MV	500 ppm, 2.400 mg/m3	
	SI OEL	KTV	1.000 ppm, 4.800 mg/m3	
n-heptane	SI OEL	MV	500 ppm, 2.085 mg/m3	
	SI OEL	KTV	500 ppm, 2.085 mg/m3	
SE				
Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
2,2,4-Trimethylpentane (Isooctane)	SE AFS	NGV	200 ppm, 900 mg/m3	
	SE AFS	KGV	300 ppm, 1.400 mg/m3	V,
n-heptane	SE AFS	NGV	200 ppm, 800 mg/m3	
•	SE AFS	KGV	300 ppm, 1.200 mg/m3	V,
RS	alue ska alivaliuas sui	n ett rekommenderat nog	sta värde som inte bör överskrid	185
Компоненты	Основа	Величина	Параметры контроля	Заметка
н-гептан	RS OEL	GVI	500 ppm, 2.085 mg/m3	EU*,
EU* Substance mentioned in in RO	dicative exposure limit		39 / EC (first list)	
Componente	Sursă	Valoare	Parametri de control	Notă
n-heptane	RO OEL	TWA	500 ppm, 2.085 mg/m3	
PT				
Componentes	Bases	Valor	Parâmetros de controlo	Nota
n-heptane	PT DL 305/2007	oito horas	500 ppm, 2.085 mg/m3	
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	PT OEL	VLE-MP	400 ppm,	
	PT OEL	VLE_CD	500 ppm,	
L				
Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
n-heptane	PL NDS	NDS	1.200 mg/m3	
	PL NDS	NDSch	2.000 mg/m3	
10				
Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
	FOR-2011-12-06-	GV	•	
n-heptane	1358	GV	200 ppm, 800 mg/m3	
IL				
Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
n-heptane	NL WG	TGG-8 uur	1.200 mg/m3	
	NL WG	TGG-15 min	1.600 mg/m3	
47				
<b>//T</b> Components	Pagia	Value	Control poromotoro	Noto
n-Heptane	Basis MT OEL	Value TWA	Control parameters 500 ppm, 2.085 mg/m3	Note
		1000	1 300 ppm, 2.003 mg/m3	I
ЛК				
Съставки	Основа	Стойност	Параметри на	Бележка
			контрол	
2,2,4-Trimethylpentane (Isooctane)	MK OEL	MV	500 ppm, 2.400 mg/m3	
n-heptane	MK OEL	MV	500 ppm, 2.085 mg/m3	
_V				
Sastāvdalas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
2,2,4-Trimethylpentane (Isooctane)	LV OEL	AER 8 st	100 mg/m3	
	LV OEL	AER īslaicīgā	300 mg/m3	
n-heptane	LV OEL	AER 8 st	85 ppm, 350 mg/m3	
	LV OEL	AER īslaicīgā	500 ppm, 2.085 mg/m3	
-U				
Composants	Base	Valeur	Paramètres de	Note
Compedante	2000	Valour	contrôle	11010
n-heptane	LU OEL	TWA	500 ppm, 2.085 mg/m3	
•		•	• • • • • •	
<u>-T</u>				
Komponentai	Šaltinis	Vertė	Kontrolės parametrai	Pastaba
2,2,4-Trimethylpentane (Isooctane)	LT OEL LT OEL	IPRD TPRD	200 ppm, 900 mg/m3 300 ppm, 1.400 mg/m3	
n-heptane	LT OEL	IPRD	500 ppm, 1.400 mg/m3	
ППеркапе	LT OEL	TPRD	750 ppm, 3.128 mg/m3	
		1.1.0		
Т	-	1		
Componenti	Base	Valore	Parametri di controllo	Nota
n-heptane	IT VLEP	TWA	500 ppm, 2.085 mg/m3	
5				
Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
n-heptane	IS OEL	TWA	200 ppm, 820 mg/m3	
•				
E	1 ÷ .	1		
Components	Basis	Value	Control parameters	Note
n-Heptane	IE OEL	OELV - 8 hrs (TWA)	500 ppm, 2.085 mg/m3	
łU				
Komponensek	Bázis	Érték	Ellenőrzési	Megjegyzés
			paraméterek	3,-3,-2,-200
2,2,4-Trimethylpentane (Isooctane)	HU OEL	AK-érték	2.350 mg/m3	R, i,
	HU OEL	CK-érték	4.700 mg/m3	R, i,
n-heptane	HU OEL	AK-érték	2.000 mg/m3	R, EU1,
EU1 2000/39/EK irányelvben kö				
i Ingerlő anyag (izgatja a bő R Azok az anyagok amelyel			ására jelentkezik. Korrigált ÁK =	- ÁK v 8/a nani áraaz
n Azuk az anyayuk, amelyer	ง อยู่ออขออยู่หลายอาเม กลีเล		asara jelenikezik. Kunyali AK =	- הוא טימ חמטו טומצע
IR				
	Tamali	Vriindnoot	Nadzorni parametri	Bilješka
Sastojci	Temelj	Vrijednost	500 ppm 2 085 mg/m3	koža

 Sastojci
 Temelj
 Vrijednost
 Nadzorni parametri
 Bilješka

 n-heptane
 HR OEL
 GVI
 500 ppm, 2.085 mg/m3
 koža,

 HR OEL
 500 ppm, 2.000 mg/m3
 Koža,

 koža
 Razvrstana kao tvar koja nadražuje kožu (H315) ili je takva napomena navedena u direktivama

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<b>3G</b> Съставки	Основа	Стойност	Параметри на	Бележка
NIOSH National Institute for Occup	bational Safety and He	ealth		
·	CH SUVA	MAK-Wert	400 ppm, 1.600 mg/m3	NIOSH,
n-heptane	CH SUVA	KZGW	400 ppm, 1.600 mg/m3	NIOSH,
	CH SUVA CH SUVA	MAK-Wert KZGW	200 ppm, 470 mg/m3	
	CH SUVA CH SUVA	KZGW	600 ppm, 2.800 mg/m3 100 ppm, 470 mg/m3	NIOSH,
2,2,4-Trimethylpentane (Isooctane)	CH SUVA	MAK-Wert	300 ppm, 1.400 mg/m3	NIOSH,
Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
H				
n-heptane	CY OEL	TWA	500 ppm, 2.085 mg/m3	
Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Y			_	
I dráždí sliznice (oči, dýchao	ci cesty), respektive ki	ÚZI		
	CZ OEL	NPK-P	2.000 mg/m3	I,
n-heptane	CZ OEL	PEL	1.000 mg/m3	I,
Složky	Základ	Hodnota	Kontrolní parametry	Poznámka
Z				
n-heptane	DE TRGS 900	AGW	500 ppm, 2.100 mg/m3	
Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
DE				
n-heptane	DK OEL	GV	200 ppm, 820 mg/m3	
Komponenter	Basis	Værdi	Kontrolparametre	Note
ок	•		-	
n-heptane	EE OEL	Piirnorm	500 ppm, 2.085 mg/m3	1
n hontono		kokkupuute piirnorm	11 . 0	
	EE OEL	Lühiajalise	300 ppm, 1.400 mg/m3	
2,2,4-Trimethylpentane (Isooctane)	EE OEL	Piirnorm	200 ppm, 900 mg/m3	manadou
E Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
•				
n-heptane	ES VLA	VLA-ED	500 ppm, 2.085 mg/m3	
2,2,4-Trimethylpentane (Isooctane)	ES VLA	VLA-ED	300 ppm, 1.420 mg/m3	Nota
S Componentes	Base	Valor	Parámetros de control	Nota
S				
	FIOEL	HTP-arvot 15 min	500 ppm, 2.100 mg/m3	
	FLOEL	HTP-arvot 15 min HTP-arvot 8h	300 ppm, 1.200 mg/m3	<u> </u>
n-heptane	FI OEL FI OEL	HTP-arvot 8h HTP-arvot 15 min	300 ppm, 1.200 mg/m3 500 ppm, 2.100 mg/m3	<u> </u>
n hantana	FLOEL	HTP-arvot 15 min	380 ppm, 1.800 mg/m3	
2,2,4-Trimethylpentane (Isooctane)	FIOEL	HTP-arvot 8h	300 ppm, 1.400 mg/m3	
			muuttujat	
Aineosat	Peruste	Arvo	Valvontaa koskevat	Huomautus
contraignantes				
VLR Valeurs limites réglementa	ires contraignantes			
Valeurs limites Valeurs limites indicatives indicatives				
•	FR VLE	VLCT (VLE)	500 ppm, 2.085 mg/m3	VLR contraignantes,
n-heptane	FR VLE	VME	400 ppm, 1.668 mg/m3	indicatives, Vapeur VLR contraignantes,
	FR VLE	VLCT (VLE)	1.500 mg/m3	indicatives, Vapeur Valeurs limites
2,2,4-Trimethylpentane (Isooctane)	FR VLE	VME	contrôle 1.000 mg/m3	Valeurs limites
Composants	Base	Valeur	Paramètres de	Note
R				
n-Heptane	GB EH40	TWA	500 ppm, 2.085 mg/m3	
Components	Basis	Value	Control parameters	Note
B				
·	GR OEL	STEL	500 ppm, 2.000 mg/m3	
n-heptane	Βάση GR OEL	TWA	Παράμετροι ελέγχου 500 ppm, 2.000 mg/m3	Σημείωση
Συστατικά		Τιμή		

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			контрол	
n-heptane	BG OEL	TWA	1.600 mg/m3	
BE				
Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
n-heptane	BE OEL	TGG 8 hr	400 ppm, 1.664 mg/m3	
	BE OEL	TGG 15 min	500 ppm, 2.085 mg/m3	
_				
NT Inhaltsstoffe	Grundlage	Wert	Zu überwachende	Bemerkung
Inhaltsstoffe			Parameter	Bemerkung
	AT OEL	MAK-TMW	Parameter 300 ppm, 1.400 mg/m3	Bemerkung
Inhaltsstoffe	AT OEL AT OEL	MAK-TMW MAK-KZW	Parameter           300 ppm, 1.400 mg/m3           1.200 ppm, 5.600 mg/m3	Bemerkung
Inhaltsstoffe	AT OEL	MAK-TMW	Parameter           300 ppm, 1.400 mg/m3	Bemerkung

#### DNEL

n-Heptane

#### 8.2

#### Exposure controls Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### Personal protective equipment

Respiratory protection	:	If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Organic Vapors. A positive pressure, air- supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
Hand protection	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	:	Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.
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Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
For additional details, see th	ne Exposure Scenario in the Annex portion
CTION 9: Physical and chen	nical properties
Information on basic phys	sical and chemical properties
Appearance	
Physical state Color Odor	: liquid : Colorless : gasoline-like
Safety data	
Flash point	: -8°C (18°F) Method: Tag closed cup
Lower explosion limit	: 1 %(V)
Upper explosion limit	: 7 %(V)
Oxidizing properties	: No
Autoignition temperature	: No data available
Molecular formula	: Mixture
Molecular weight	: Not applicable
рН	: Not applicable
Freezing point	: No data available
Pour point	No data available
Boiling point/boiling range	: 96-103°C (205-217°F)
Vapor pressure	: 1,70 PSI at 37,8°C (100,0°F)
Relative density	: 0,693 at 15,6 °C (60,1 °F)
Water solubility	: negligible
Partition coefficient: n-	: No data available
octanol/water Viscosity, kinematic	: No data available
Relative vapor density	: 3 (Air = 1.0)
Evaporation rate	: 1

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Percent volatile	: > 99 %		
	0,04 %		
	0,04 /0		
SECTION 10: Stability and reactive	vity		
10.1			
Reactivity	: Stable under recommended storage conditions.		
10.2			
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.		
10.3			
Possibility of hazardous read	ctions		
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.		
	Hazardous reactions: Vapors may form explosive mixture with air.		
10.4 Conditions to avoid	: Heat, flames and sparks.		
10.5 Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.		
10.6 Hazardous decomposition products	: Carbon oxides		
Other data	: No decomposition if stored and applied as directed.		
SECTION 11: Toxicological inform	mation		
11.1 Information on toxicological	effects		
Acute oral toxicity			
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>LD50: &gt; 5.000 mg/kg</li> <li>Species: Rat</li> <li>Sex: male and female</li> <li>Method: OECD Test Guideline 401</li> <li>Symptoms: Salivation</li> </ul>		
n-Heptane	LD50: > 5.000 mg/kg Species: Rat Method: OECD Test Guideline 401 Information given is based on data obtained from similar		
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	substances.
Acute inhalation toxicity	
2,2,4-Trimethylpentane (Isooctane)	: LC50: > 33,52 mg/l Exposure time: 4 h Species: Rat Sex: male and female Test atmosphere: vapor Method: OECD Test Guideline 403
Acute dermal toxicity	
2,2,4-Trimethylpentane (Isooctane)	: LD50: > 2.000 mg/kg Species: Rabbit Sex: male and female Method: OECD Test Guideline 402
TrusTec™ PRF Octane No. Skin irritation	Blends 80-98 : Skin irritation largely based on animal evidence.
TrusTec™ PRF Octane No. Eye irritation	<ul><li>Blends 80-98</li><li>Vapors may cause irritation to the eyes, respiratory system and the skin.</li></ul>
TrusTec™ PRF Octane No. Sensitization	Blends 80-98 : Did not cause sensitization on laboratory animals.
Repeated dose toxicity	
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>Species: Rat, Male and female Sex: Male and female Application Route: Inhalation Dose: 0, 668, 2220, 6646 ppm Exposure time: 13 weeks Number of exposures: 6 hr/day 5 d/wk NOEL: 8,117 mg/l 2220 ppm Method: OECD Guideline 413 Information given is based on data obtained from similar substances.</li> </ul>
n-Heptane	Species: Rat, male Sex: male Application Route: Inhalation Dose: 12.47 mg/l Exposure time: 16 wk Number of exposures: 12 h/d, 7 d/wk NOEL: 12,47 mg/l No adverse effect has been observed in chronic toxicity tests.
	10//00
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sion 1.13	Revision Date 2022-11-
	Species: Rat, Male and female Sex: Male and female Application Route: Inhalation Dose: 12.35 mg/l Exposure time: 26 wk Number of exposures: 6 h/d, 5 d/wk Method: OECD Test Guideline 413 No adverse effect has been observed in chronic toxicity tests.
Genotoxicity in vitro	
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>Test Type: Ames test Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative</li> </ul>
	Test Type: Mouse lymphoma assay Method: OECD Guideline 476 Result: negative
	Test Type: Sister Chromatid Exchange Assay Result: negative
	Test Type: Unscheduled DNA synthesis assay Result: negative
n-Heptane	Test Type: Ames test Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: Mammalian cell gene mutation assay Method: OECD Guideline 476 Result: negative
	Test Type: Chromosome aberration test in vitro Method: OECD Guideline 473 Result: negative
	Test Type: Mitotic recombination Result: negative
Genotoxicity in vivo	
2,2,4-Trimethylpentane (Isooctane)	: Test Type: Unscheduled DNA synthesis assay Species: Mouse Dose: 500 mg/kg Result: negative
	Test Type: Unscheduled DNA synthesis assay Species: Rat Dose: 500 mg/kg Result: negative
Reproductive toxicity	
2,2,4-Trimethylpentane (Isooctane)	: Species: Rat Sex: male and female
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sion 1.13	Revision Date 2022-11
	Application Route: Inhalation Dose: 0, 900, 3000, 9000 ppm Number of exposures: 6 h/d 5 d/wk Method: OECD Test Guideline 416 NOAEL Parent: 3000 ppm NOAEL F1: 3000 ppm NOAEL F2: 3000 ppm Information given is based on data obtained from similar substances.
n-Heptane	Species: Rat Sex: male and female Application Route: Inhalation Dose: 0, 900, 3000, 9000 ppm Number of exposures: 6 hr/d, 5 d/wk Test period: 13 wk Method: OECD Test Guideline 416 NOAEL Parent: 9000 ppm NOAEL F1: 3000 ppm NOAEL F2: 3000 ppm Information given is based on data obtained from similar substances.
Developmental Toxicity	
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>Species: Rat Application Route: Inhalation Dose: 0, 400, 1200 ppm Number of exposures: 6h/d Test period: GD6-15 NOAEL Teratogenicity: 1200 ppm NOAEL Maternal: 1200 ppm Information given is based on data obtained from similar substances.</li> <li>Species: Rat Application Route: Inhalation Dose: 0, 900, 3000, 9000 ppm Number of exposures: 6h/d Test period: GD6-15 Method: OECD Guideline 414 NOAEL Teratogenicity: 9000 ppm</li> </ul>
	NOAEL Telatogenicity. 9000 ppm NOAEL Maternal: 3000 ppm Information given is based on data obtained from similar substances.
n-Heptane	Species: Rat Application Route: Inhalation Dose: 0, 900, 3000, 9000 ppm Exposure time: GD6-15 Number of exposures: 6 hrs/d NOAEL Teratogenicity: 9000 ppm NOAEL Maternal: 3000 ppm
TrusTec™ PRF Octane No. Aspiration toxicity	Blends 80-98 : May be fatal if swallowed and enters airways.
CMR effects	
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2,2,4-Trimethylpentane (Isooctane)	<ul> <li>Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.</li> <li>Teratogenicity: Animal testing did not show any effects on fetal development.</li> <li>Reproductive toxicity: Animal testing did not show any effects on fertility.</li> </ul>
n-Heptane	Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: No toxicity to reproduction
11.2 Information on other hazard	ds
TrusTec™ PRF Octane No.	
Further information Endocrine disrupting properties	<ul> <li>Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.</li> <li>The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.</li> </ul>
SECTION 49: Ecological inform	
SECTION 12: Ecological informa	ition
12.1 Toxicity	
Toxicity to fish	
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>LC50: 0,11 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.</li> </ul>
n-Heptane	LL50: 5,738 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: QSAR modeled data
Toxicity to daphnia and oth	er aquatic invertebrates
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>EC50: 0,4 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Information given is based on data obtained from similar substances.</li> </ul>
n-Heptane	EC50: 1,5 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
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	static test Toxic to aquatic organisms.	
	LC50: 0,1 mg/l Exposure time: 96 h Species: Mysidopsis bahia (mysid shrimp) semi-static test Very toxic to aquatic organisms.	
Toxicity to algae		
2,2,4-Trimethylpentane (Isooctane)	: EL50: 2,943 mg/l Exposure time: 72 h Method: QSAR modeled data	
n-Heptane	EL50: 4,338 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (microalgae) Method: QSAR	
Toxicity to fish (Chronic to	oxicity)	
n-Heptane	: NOELR: 1,284 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Method: QSAR modeled data	
Toxicity to daphnia and ot	her aquatic invertebrates (Chronic toxicity)	
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>NOEL: 0,17 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Information given is based on data obtained from similar substances.</li> </ul>	
2.2 Persistence and degradab	ility	
Biodegradability		
2,2,4-Trimethylpentane (Isooctane)	<ul> <li>Result: Not readily biodegradable.</li> <li>Method: OECD Test Guideline 301</li> <li>Expected to be inherently biodegradable.</li> <li>Information given is based on data obtained from similar substances.</li> </ul>	
n-Heptane	: Result: Readily biodegradable. 70 % Testing period: 10 d	
2.3 Bioaccumulative potential		
Bioaccumulation		
2,2,4-Trimethylpentane (Isooctane)	: Bioconcentration factor (BCF): 231 Method: QSAR modeled data	
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	This material is not expected to bioaccumulate.
n-Heptane	<ul> <li>Bioconcentration factor (BCF): 552</li> <li>Method: QSAR modeled data</li> <li>This material is not expected to bioaccumulate.</li> </ul>
12.4 Mobility in soil	
Mobility	
2,2,4-Trimethylpentane (Isooctane)	: Medium: Air Method: Calculation, Mackay Level I Fugacity Model After release, disperses into the air.
n-Heptane	: Medium: Air Method: Calculation, Mackay Level I Fugacity Model Content: 100 % After release, disperses into the air.
12.5	
Results of PBT and vPvB ass	<ul> <li>essment</li> <li>This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.</li> </ul>
12.6 Endocrine disrupting properti Endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation
12.7 Other adverse effects	(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Additional ecological information 12.8 Additional Information	: Very toxic to aquatic life with long lasting effects.
Ecotoxicology Assessment	
Short-term (acute) aquatic haza 2,2,4-Trimethylpentane (Isooctane)	rd : Very toxic to aquatic life.
n-Heptane	: Very toxic to aquatic life.
Long-term (chronic) aquatic haz 2,2,4-Trimethylpentane (Isooctane)	ard : Very toxic to aquatic life with long lasting effects.
n-Heptane	: Very toxic to aquatic life with long lasting effects.
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#### **SECTION 13: Disposal considerations**

#### 13.1

#### Waste treatment methods

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

For additional details, see the Exposure Scenario in the Annex portion

#### **SECTION 14: Transport information**

#### 14.1 - 14.7

#### Transport information

# The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION) UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II, MARINE POLLUTANT, (2,2,4-TRIMETHYLPENTANE (ISOOCTANE), N-HEPTANE)

#### IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II, (-8 °C c.c.), MARINE POLLUTANT, (2,2,4-TRIMETHYLPENTANE (ISOOCTANE), N-HEPTANE)

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II

#### ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

UN1268, PETROLEUM DISTILLATES, N.O.S., 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (2,2,4-TRIMETHYLPENTANE (ISOOCTANE), N-HEPTANE)

# RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

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			TY DATA SHEET		
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33,UN1268,PETROLEUM DISTILLATES, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS, (2,2,4-TRIMETHYLPENTANE (ISOOCTANE), N-HEPTANE)					
OF DANGEROUS GOOD	<b>DS BY INLAND WATE</b> M DISTILLATES, N.O.	.S., 3, II, ÉNVIRONMENTALLY HAZ			
Maritime transport in bu		instruments			
SECTION 15: Regulatory info	ormation				
15.1 Safety, health and envir National legislation	onmental regulations	s/legislation specific for the subs	tance or mixture		
	and of the Council on	ay 2015 amending Regulation (EC) the Registration, Evaluation, Author			
Water hazard class (Germany)	: WGK 2 water	r endangering			
15.2 Chemical Safety Assess	sment				
Components :	2,2,4- trimethylpentane	A Chemical Safety Assessment has been carried out for this substance.	208-759-1		
Chemical Safety Assess	sment				
	heptane	A Chemical Safety Assessment has been carried out for this substance.	205-563-8		
Major Accident Hazard Legislation	: 96/82/EC Highly flamm 7b Quantity 1: 5 Quantity 2: 5	.000 t			
	: 96/82/EC Dangerous fo 9a Quantity 1: 10 Quantity 2: 20				
	: ZEU_SEVES FLAMMABLE				

AMMABLE LIQUIDS P5c Quantity 1: 5.000 t Quantity 2: 50.000 t

: ZEU\_SEVES3 Update: ENVIRONMENTAL HAZARDS

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	E1 Quantity 1: 100 Quantity 2: 200		
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Other AIIC New Zealand NZIoC Japan ENCS Korea KECI	regulation Provide the in- Constant of the in- C	on 1907/2006/EC nventory, or in co compliance with eventory nventory, or in co nventory, or in co nventory, or in co tances in this pro gistered, or exem n through an Onl CH regulations. In d if the Korean Ir I on CPChem's n	npliance according to REACH compliance with the inventory the active portion of the ompliance with the inventory ompliance with the inventory ompliance with the inventory oduct were registered, notified apted from registration by by Representative according to omportation of this product is optifications or if the Importer of ed the substances.
Philippines PICCS Taiwan TCSI China IECSC	: On the ir	nventory, or in co	ompliance with the inventory ompliance with the inventory ompliance with the inventory ompliance with the inventory
SECTION 16: Other information			
	Health Hazard: 2 Fire Hazard: 3 Reactivity Hazard		2 0
Further information			
Legacy SDS Number : Significant changes since the las	28440	lighted in the ma	argin. This version replaces all
previous versions.			
The information in this SDS perta	ains only to the pr	oduct as shipped	d.
The information provided in this S information and belief at the date guidance for safe handling, use, not to be considered a warranty of specific material designated and other materials or in any process	of its publication processing, stora or quality specific may not be valid	. The information ge, transportatio ation. The inform for such materia	n given is designed only as a n, disposal and release and is nation relates only to the
			the safety data sheet
ACGIH American Confere		LD50	Lethal Dose 50%
Government Indus	strial Hygienists		

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DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency
NDSL	List	NIOSH	National Institute for Occupational
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate

#### Full text of H-Statements referred to under sections 2 and 3.

flammable liquid and vapor.
e fatal if swallowed and enters airways.
es skin irritation.
ause drowsiness or dizziness.
oxic to aquatic life.
oxic to aquatic life with long lasting effects.

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#### Annex

Short title of Exposure Scenario: Fo	
Main User Groups	: <b>SU 3:</b> Industrial uses: Uses of substances as such or in preparations at industrial sites
Sector of use	: SU 10: Formulation [mixing] of preparations and/ or re-
Process category	<ul><li>packaging (excluding alloys)</li><li><b>PROC1:</b> Use in closed process, no likelihood of exposure</li></ul>
	PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or
	formulation) <b>PROC4:</b> Use in batch and other process (synthesis) where
	opportunity for exposure arises
	PROC5: Mixing or blending in batch processes for formulat of preparations and articles (multistage and/ or significant contact)
	<b>PROC8a:</b> Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at
	non-dedicated facilities
	PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities
	PROC9: Transfer of substance or preparation into small
	containers (dedicated filling line, including weighing) <b>PROC14:</b> Production of preparations or articles by tabletting
	compression, extrusion, pelletization PROC15: Use as laboratory reagent
Environmental release category	: ERC2: Formulation of preparations
Further information	:
	Formulation, packing and re-packing of the substance and i mixtures in batch or continuous operations, including storag materials transfers, mixing, tabletting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities
1 Contributing scenario contro reparations	Iling environmental exposure for:ERC2: Formulation of
Maximum allowable site tonnage (MSafe) based on release following total wastewater	: 900 tonnes/day
treatment removal (tonnes/day): (Msafe)	
nvironment factors not influenced Flow rate	<b>by risk management</b> : 18.000 m3/d
Dilution Factor (River) Dilution Factor (Coastal Areas)	: 10 : 100
ther given operational conditions	affecting environmental exposure

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Continuous use/release	
Number of emission days per year	: 300
Emission or Release Factor: Air	
Emission or Release Factor: Water	
Emission or Release Factor: Soil	: 0,01 %
Technical conditions and measures	/ Organizational measures
Air	: Treat air emission to provide the required removal efficiency of
	(%): (Effectiveness: 0 %)
Water	: Treat onsite wastewater (prior to receiving water discharge) to
	provide the required removal efficiency of $\geq$ (%):
	(Effectiveness: 61,8 %)
Remarks	: Risk from environmental exposure is driven by freshwater
	sediment.
Water	: If discharging to domestic sewage treatment plant, provide the
	required onsite wastewater removal efficiency of $\geq$ (%):
	(Effectiveness: 0 %)
Remarks	: If discharging to domestic sewage treatment plant, no onsite
Demerke	wastewater treatment required.
Remarks	: Prevent discharge of undissolved substance to or recover from wastewater.
Remarks	
Remarks	<ul><li>Do not apply industrial sludge to natural soils.</li><li>Sludge should be incinerated, contained or reclaimed.</li></ul>
Remarks	: Common practices vary across sites thus conservative
Romanto	process release estimates used.
Conditions and measures related to	municipal sewage treatment plant
Flow rate of sewage treatment	: 2.000 m3/d
plant effluent	
Effectiveness (of a measure)	: 96,3 %
Percentage removed from waste	: 96,3 %
water	
Sludge Treatment	: No data available
Procedures to limit air emissions	: No data available
from Sewage Treatment Plant	
Conditions and measures related to	external treatment of waste for disposal
Waste treatment	: External treatment and disposal of waste should comply with
	applicable local and/or national regulations.
Conditions and measures related to	
Recovery Methods	: External recovery and recycling of waste should comply with
	applicable local and/or national regulations.
	Iling worker exposure for: PROC1, PROC2: Use in
	exposure, Use in closed, continuous process with
occasional controlled exposure	
Dreduct choracteristics	
Product characteristics	· Liquid substance
Physical Form (at time of use)	: Liquid substance
Amount used	
	· No limit
Remarks	: No limit
Remarks	: No limit
Remarks Frequency and duration of use	<ul> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> </ul>
Remarks Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Remarks Frequency and duration of use Remarks Other operational conditions affection	: Covers daily exposures up to 8 hours (unless stated differently) ng workers exposure
Remarks Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Remarks Frequency and duration of use Remarks Other operational conditions affecting	: Covers daily exposures up to 8 hours (unless stated differently) ng workers exposure

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temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.

#### **Technical conditions and measures**

Handle substance within a closed system., Store substance within a closed system., Transfer via enclosed lines.

#### Organizational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

# 2.2 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation)

<b>Product characteristics</b> Physical Form (at time of use)	: Liquid substance
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>ing workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
<b>Technical conditions and measures</b> Avoid dip sampling., Formulate in er ventilation by mechanical means.	<b>s</b> nclosed or ventilated mixing vessels., Provide enhanced general
Avoid direct skin contact with product (tested to EN374) if hand contact with a second struct with the second struct with the second struct st	<b>t /limit releases, dispersion and exposure</b> ct. Identify potential areas for indirect skin contact. Wear gloves th substance likely. Clean up contamination/spills as soon as they tion immediately. Provide basic employee training to prevent / ny skin problems that may develop.
	olling worker exposure for: PROC4, PROC15: Use in esis) where opportunity for exposure arises, Use as
<b>Product characteristics</b> Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)

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Other operational conditions affeo Remarks	
Avoid direct skin contact with produ (tested to EN374) if hand contact v occur. Wash off any skin contamin minimise exposures and to report a	ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they lation immediately. Provide basic employee training to prevent / any skin problems that may develop., No specific measures identified
	rolling worker exposure for: PROC5: Mixing or blending in on of preparations and articles (multistage and/ or
Product characteristics Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affeo Remarks	<ul> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Avoid direct skin contact with product (tested to EN374) if hand contact vo occur. Wash off any skin contamin	ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they lation immediately. Provide basic employee training to prevent / any skin problems that may develop.
Conditions and measures related Wear suitable gloves tested to EN3	to personal protection, hygiene and health evaluation 374.
	rolling worker exposure for: PROC8a: Transfer of rging/discharging) from/to vessels/large containers at
Product characteristics Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affeo	cting workers exposure

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Remarks	: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.
<b>Fechnical conditions and measur</b> Provide extraction ventilation at po container.	<b>es</b> bints where emissions occur., Use drum pumps or carefully pour from
Avoid direct skin contact with prod (tested to EN374) if hand contact v occur. Wash off any skin contamin	ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they action immediately. Provide basic employee training to prevent / any skin problems that may develop.
Conditions and measures related Wear suitable gloves tested to EN	to personal protection, hygiene and health evaluation 374.
	rolling worker exposure for: PROC8b: Transfer of rging/ discharging) from/ to vessels/ large containers at
Product characteristics Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affe Remarks	<ul> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
<b>Fechnical conditions and measur</b> Provide extraction ventilation at po container.	<b>es</b> bints where emissions occur., Use drum pumps or carefully pour from
Avoid direct skin contact with prod (tested to EN374) if hand contact v occur. Wash off any skin contamin	ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop.
Conditions and measures related Wear suitable gloves tested to EN	to personal protection, hygiene and health evaluation 374.
substance or preparation into	rolling worker exposure for: PROC9, PROC14: Transfer of small containers (dedicated filling line, including arations or articles by tabletting, compression, extrusion,
Product characteristics	

					SAF	ETY DATA SHEET
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Physical For Vapor press	m (at time of use) ure	: Liqu : 2,8 ł	id substance ∢Pa			
Amount used Remarks		: No li	imit			
Frequency an Remarks	d duration of use		ers daily exposur rently)	es up to 8	3 hours (unles	s stated
<b>Other operation</b> Remarks	onal conditions af	: Assu temp	umes use at not r	stated diff	erently., Assu	mes a good basic
•	osures and to repo		-	develop.,	No specific n	neasures identified
Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value typ	e Level of Exposure	Risk characterization ratio (PEC/PNEC)
ERC2	Hydrocarbon Block Method with Petrorisk		Air		0,5 mg/m3	
			Fresh water		0,0032 mg/L	
			Freshwater sediment		0,14 mg/kg	0,097
			Marine water		0,32 µg/L	0,0085
			Marine sediment Agricultural soil		0,014 mg/kg 0,0046 mg/kg	
ERC2: Form	Sumers Exposure Assessment	Specific conditions	Value type	Lev	el of Exposure	Risk characterizatior ratio (PEC/PNEC):
PROC1, CS15,	Method ECETOC TRA		Worker – inhala	tion,	),05 mg/m3	0,000
CS67	Modified		long-term – syste Worker – dermal,	emic long- C	,34 mg/kg/d	0,000
			term – system Worker – long-te			0.000
			systemic Combi routes			0,000

PROC2, CS67, CS15	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	46,72 mg/m3	0,023
		Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,002
		Worker – long-term – systemic Combined routes		0,025
PROC3, CS2, CS15	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	116,79 mg/m3	0,057
		Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
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		Worker – long-term – systemic Combined		0,058
PROC3, CS136	ECETOC TRA Modified	routes Worker – inhalation, long-term – systemic	140,15 mg/m3	0,069
	Wouncu	Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
		Worker – long-term – systemic Combined routes		0,069
PROC4, CS16	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	93,43 mg/m3	0,046
		Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,009
		Worker – long-term – systemic Combined routes		0,055
PROC15, CS36	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	46,72 mg/m3	0,023
		Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
		Worker – long-term – systemic Combined routes		0,023
PROC5, CS30	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
		Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
		Worker – long-term – systemic Combined routes		0,118
PROC8a, CS34, CS22	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	23,36 mg/m3	0,011
		Worker – dermal, long- term – systemic	0,1371 mg/kg/d	0,000
		Worker – long-term – systemic Combined routes		0,012
PROC8a, CS39	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
		Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
		Worker – long-term – systemic Combined routes		0,118
PROC8b, CS14	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
		Worker – dermal, long- term – systemic	1,372 mg/kg/d	0,002
		Worker – long-term – systemic Combined routes		0,117
PROC8b, CS8	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	7,01 mg/m3	0,003
		Worker – dermal, long- term – systemic	0,686 mg/kg/d	0,001
		Worker – long-term – systemic Combined routes		0,004
PROC9, CS6	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
		Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,009
		Worker – long-term – systemic Combined routes		0,124
PROC14, CS100	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
		Worker – dermal, long- term – systemic	3,43 mg/kg/d	0,004
		Worker – long-term – systemic Combined		0,119
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			routes		
PROC1: Use in closed CS15: General exposu CS67: Storage			kposure		
PROC2: Use in closed CS67: Storage CS15: General exposu			ccasional contro	lled exposure	
PROC3: Use in closed CS2: Process sampling CS15: General exposu	, ,		r formulation)		
PROC3: Use in closed CS136: Batch process					
PROC4: Use in batch a CS16: General exposu			is) where opport	unity for exposure	e arises
PROC15: Use as labor CS36: Laboratory activ					
PROC5: Mixing or blen and/ or significant conta CS30: Mixing operation	act)		r formulation of p	reparations and	articles (multistag
PROC8a: Transfer of s at non-dedicated faciliti CS34: Manual CS22: Transfer from/po	es		narging/discharg	ing) from/to vess	els/large containe
PROC8a: Transfer of s at non-dedicated faciliti CS39: Equipment clear	es		narging/discharg	ing) from/to vess	els/large containe
PROC8b: Transfer of s containers at dedicated CS14: Bulk transfers		reparation (cl	harging/ discharg	ging) from/ to ves	sels/ large
PROC8b: Transfer of s containers at dedicated CS8: Drum/batch trans	l facilities	reparation (cl	narging/ discharg	ging) from/ to ves	sels/ large
PROC9: Transfer of su weighing) CS6: Drum and small p		eparation into	small containers	s (dedicated filling	g line, including
PROC14: Production o CS100: Production or p					
Guidance to Downs y the Exposure Scer		to evaluate	e whether he w	orks inside th	e boundaries s

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Measures/Operational Conditions Available hazard data do not ena Risk Management Measures are Where other Risk Management M ensure that risks are managed to operating conditions which may r define appropriate site-specific risks Required removal efficiency for w either alone or in combination.	ected to exceed the DN(M)EL when the Risk Management s outlined in Section 2 are implemented. able the derivation of a DNEL for dermal irritant effects. based on qualitative risk characterisation. Measures/Operational Conditions are adopted, then users should b at least equivalent levels.Guidance is based on assumed not be applicable to all sites; thus, scaling may be necessary to sk management measures. wastewater can be achieved using onsite/offsite technologies, air can be achieved using on-site technologies, either alone or in
combination.	ntrol technologies are provided in SpERC factsheet
1. Short title of Exposure Scenario: U	se as a fuel - industrial
Main User Groups Sector of use Process category	<ul> <li>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU3: Industrial Manufacturing (all)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>PROC16: Using material as fuel sources, limited exposure to unburned product to be expected</li> </ul>
Environmental release category	: <b>ERC7, ERC8b:</b> Industrial use of substances in closed systems, Wide dispersive indoor use of reactive substances in open systems
Further information	: Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.
	olling environmental exposure for:ERC7, ERC8b: closed systems, Wide dispersive indoor use of reactive
(Msafe)	: 1.800 tonnes/day
Environment factors not influenced	d by risk management : 18.000 m3/d : 10
Dilution Factor (River) Dilution Factor (Coastal Areas)	: 100
Dilution Factor (Coastal Areas)	: 100 affecting environmental exposure

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Number of emission days per year Emission or Release Factor: Air	: 300 : 5%
Emission of Release Factor: Water	
	: 0%
Technical conditions and measures /	Organizational measures
Air	Treat air emission to provide a typical removal efficiency of
	(%): (Effectiveness: 95 %)
Water	: Treat onsite wastewater (prior to receiving water discharge) to
	provide the required removal efficiency of $\geq$ (%):
Remarks	(Effectiveness: 23,4 %) : Risk from environmental exposure is driven by freshwater
Remarks	sediment.
Water	: If discharging to domestic sewage treatment plant, provide the
	required onsite wastewater removal efficiency of $\geq$ (%):
	(Effectiveness: 0 %)
Remarks	: Do not apply industrial sludge to natural soils.
Remarks	: Sludge should be incinerated, contained or reclaimed.
Remarks	: Common practices vary across sites thus conservative process release estimates used.
Remarks	: If discharging to domestic sewage treatment plant, no onsite
Komano	wastewater treatment required.
	·
Conditions and measures related to r Flow rate of sewage treatment	nunicipal sewage treatment plant : 2.000 m3/d
plant effluent	. 2.000 m3/d
•	: 96,3 %
	: 96,3 %
water	
5	: No data available
	: No data available
from Sewage Treatment Plant	
Conditions and measures related to e	external treatment of waste for disposal
Remarks	: Combustion emissions limited by required exhaust emission
	controls.
	Combustion emissions considered in regional exposure
Conditions and measures related to e	assessment.
Recovery Methods	: This substance is consumed during use and no waste of the
Recovery methods	substance is generated.
	5
	ing worker exposure for: PROC1: Use in closed
process, no likelihood of exposur	9
Dreduct choracteristics	
Product characteristics Physical Form (at time of use)	: Liquid substance
Vapor pressure	: 2,8 kPa
	, <del>.</del>
Amount used	
Remarks	: No limit
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated
. torritarite	differently)
Other operational conditions affecting Remarks	
	: Assumes a good basic standard of occupational hygiene is
SDS Number:100000014260	32/139

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implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.

#### **Technical conditions and measures**

Handle substance within a closed system., Store substance within a closed system.

#### Organizational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

# 2.2 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure

Physical Form (at time of use)	: Liquid substance
Vapor pressure	: 2,8 kPa
Amount used	
Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affer Remarks	<ul> <li>cting workers exposure</li> <li>Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.</li> </ul>
Technical conditions and measur Handle substance within a closed system.	<b>es</b> system., Transfer via enclosed lines., Store substance within a closed
Avoid direct skin contact with prod	ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they
	ation inmediately. Provide basic employee training to prevent / any skin problems that may develop.
minimise exposures and to report	any skin problems that may develop. rolling worker exposure for: PROC3: Use in closed batch
minimise exposures and to report a 2.2 Contributing scenario cont process (synthesis or formula	any skin problems that may develop. rolling worker exposure for: PROC3: Use in closed batch
minimise exposures and to report a 2.2 Contributing scenario cont process (synthesis or formula	any skin problems that may develop. rolling worker exposure for: PROC3: Use in closed batch
minimise exposures and to report a 2.2 Contributing scenario cont process (synthesis or formulat Product characteristics Physical Form (at time of use) Vapor pressure	rolling worker exposure for: PROC3: Use in closed batch tion)
minimise exposures and to report a 2.2 Contributing scenario cont process (synthesis or formula Product characteristics Physical Form (at time of use) Vapor pressure Amount used	<ul> <li>any skin problems that may develop.</li> <li>rolling worker exposure for: PROC3: Use in closed batch tion)</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> </ul>
minimise exposures and to report a <b>2.2 Contributing scenario cont</b> <b>process (synthesis or formulat</b> <b>Product characteristics</b> Physical Form (at time of use) Vapor pressure <b>Amount used</b> Remarks <b>Frequency and duration of use</b>	<ul> <li>any skin problems that may develop.</li> <li>rolling worker exposure for: PROC3: Use in closed batch tion)</li> <li>Liquid substance</li> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> </ul>

	SAFETY DATA SHEET
TrusTec™ PRF Octane No.	. Blends 80-98
Version 1.13	Revision Date 2022-11-17
Remarks	: Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.
Technical conditions and measures Handle substance within a closed syst	em.
Avoid direct skin contact with product. (tested to EN374) if hand contact with occur. Wash off any skin contaminatio	<b>limit releases, dispersion and exposure</b> Identify potential areas for indirect skin contact. Wear gloves substance likely. Clean up contamination/spills as soon as they n immediately. Provide basic employee training to prevent / skin problems that may develop., No specific measures identified.
	ing worker exposure for: PROC8a: Transfer of ng/discharging) from/to vessels/large containers at
Product characteristics	
Physical Form (at time of use)	: Liquid substance
Vapor pressure	: 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affecting Remarks	<ul> <li>g workers exposure</li> <li>Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.</li> </ul>
<b>Technical conditions and measures</b> Drain down and flush system prior to e	equipment opening or maintenance.
Avoid direct skin contact with product. (tested to EN374) if hand contact with occur. Wash off any skin contaminatio minimise exposures and to report any including use of forced supplied air.	<b>limit releases, dispersion and exposure</b> Identify potential areas for indirect skin contact. Wear gloves substance likely. Clean up contamination/spills as soon as they n immediately. Provide basic employee training to prevent / skin problems that may develop., Apply vessel entry procedures
-	personal protection, hygiene and health evaluation osure to the skin., Wear suitable gloves tested to EN374.
	ing worker exposure for: PROC8b: Transfer of ng/ discharging) from/ to vessels/ large containers at
<b>Product characteristics</b> Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
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TrusTec™ PRF Octane I	No. Bler	nds 80-98		SAFE	TY DATA SHEE
Version 1.13				Revision	Date 2022-11-1
Frequency and duration of use Remarks		ers daily exposure ently)	es up to 8 h	ours (unless	stated
Other operational conditions affer Remarks	: Assu imple	ers exposure imes a good basi emented., Assum ent temperature,	ies use at n	ot more than	20°C above
<b>Fechnical conditions and measur</b> Handle substance within a closed					
Organizational measures to preve Avoid direct skin contact with prod (tested to EN374) if hand contact v occur. Wash off any skin contamin minimise exposures and to report a	uct. Identify vith substar ation imme	potential areas f nce likely. Clean diately. Provide b	or indirect s up contamin pasic emplo	skin contact. nation/spills a	is soon as they
Conditions and measures related Wear suitable gloves tested to EN:		al protection, hy	giene and	health evalu	ation
2.2 Contributing scenario cont fuel sources, limited exposure					material as
Product characteristics Physical Form (at time of use) Vapor pressure	: Liqui : 2,8 k	d substance Pa			
Amount used Remarks	: No lii	mit			
Frequency and duration of use Remarks		ers daily exposur ently)	es up to 8 h	iours (unless	stated
Other operational conditions affeo Remarks	: Assu imple	ers exposure imes a good basi emented., Assum ent temperature,	ies use at n	ot more than	20°C above
<b>Technical conditions and measur</b> Handle substance within a closed					
Organizational measures to preve Avoid direct skin contact with prod (tested to EN374) if hand contact w occur. Wash off any skin contamin minimise exposures and to report a	uct. Identify vith substar ation imme	potential areas f nce likely. Clean diately. Provide b	or indirect s up contamin pasic emplo	skin contact. nation/spills a	is soon as they
3. Exposure estimation and ref	erence to	its source			
Environment					
Contributing Exposure Scenario Assessment	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization
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	Method			ratio (PEC/PNEC)
M	Hydrocarbon Block Method with Petrorisk	Air	0,05 mg/m3	
		Freshwater	0,0016 mg/L	0,043
		Freshwater sediment	0,07 mg/kg	0,048
		Marine water	0,16 µg/L	0,0043
		Marine sediment	0,007 mg/kg	0,0048
		Agricultural soil	0,46 µg/kg	0,001

ERC8b: Wide dispersive indoor use of reactive substances in open systems

#### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC1, CS15, CS37, CS67	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	0,05 mg/m3	0,000
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,000
PROC2, CS15, ECETOC TRA CS37, CS67 Modified			Worker – inhalation, long-term – systemic	46,72 mg/m3	0,023
		Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,002	
			Worker – long-term – systemic Combined routes		0,025
PROC3, CS15, CS37, CS107	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	116,79 mg/m3	0,057
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,058
PROC8a, CS39	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
			Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,118
PROC8a, CS103 ECETOC TRA Modified			Worker – inhalation, long-term – systemic	23,36 mg/m3	0,011
			Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,015
PROC8b, CS8, ECETOC TRA CS14 Modified			Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
		Worker – dermal, long- term – systemic	1,372 mg/kg/d	0,002	
			Worker – long-term – systemic Combined routes		0,117
PROC16, CS15, ECETOC TRA CS107 Modified			Worker – inhalation, long-term – systemic	23,36 mg/m3	0,011
		Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000	
			Worker – long-term – systemic Combined routes		0,012
	in closed process al exposures (clos		of exposure		
SDS Number:10	0000014260		36/*	139	

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CS37: Use in contained batch processes CS67: Storage

PROC2: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems) CS37: Use in contained batch processes CS67: Storage

PROC3: Use in closed batch process (synthesis or formulation) CS15: General exposures (closed systems) CS37: Use in contained batch processes CS107: (closed systems)

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS39: Equipment cleaning and maintenance

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS103: Vessel and container cleaning

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS8: Drum/batch transfers CS14: Bulk transfers

PROC16: Using material as fuel sources, limited exposure to unburned product to be expected CS15: General exposures (closed systems) CS107: (closed systems)

# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on gualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). 1. Short title of Exposure Scenario: Use as a fuel - professional Main User Groups : **SU 22:** Professional uses: Public domain (administration. education, entertainment, services, craftsmen) : SU 22: Professional uses: Public domain (administration, Sector of use education, entertainment, services, craftsmen)

Process category

SDS Number:100000014260

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	<ul> <li>controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>PROC16: Using material as fuel sources, limited exposure to unburned product to be expected</li> </ul>
Environmental release category	: <b>ERC8b, ERC8e, ERC9a, ERC9b:</b> Wide dispersive indoor use of reactive substances in open systems, Wide dispersive outdoor use of reactive substances in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems
Further information	
	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r	lling environmental exposure for:ERC8b, ERC8e, indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substance
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r indoor use of substances in clos	indoor use of reactive substances in open systems,
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r ndoor use of substances in clos n closed systems (Msafe)	indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substances : 240 tonnes/day
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r ndoor use of substances in clos n closed systems (Msafe) Environment factors not influenced Flow rate	<ul> <li>indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substance</li> <li>: 240 tonnes/day</li> <li>by risk management <ul> <li>: 18.000 m3/d</li> </ul> </li> </ul>
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r indoor use of substances in clos n closed systems (Msafe) Environment factors not influenced	<ul> <li>indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substance</li> <li>: 240 tonnes/day</li> <li>by risk management <ul> <li>: 18.000 m3/d</li> <li>: 10</li> </ul> </li> </ul>
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r indoor use of substances in close n closed systems (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas)	<ul> <li>indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substances</li> <li>240 tonnes/day</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> <li>100</li> </ul> </li> </ul>
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r indoor use of substances in close in closed systems (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a	<ul> <li>indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substances</li> <li>240 tonnes/day</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> <li>100</li> </ul> </li> </ul>
ERC9a, ERC9b: Wide dispersive Nide dispersive outdoor use of r ndoor use of substances in clos n closed systems (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a Number of emission days per year Emission or Release Factor: Air	indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substance : 240 tonnes/day by risk management : 18.000 m3/d : 10 : 100 affecting environmental exposure : 365 : 0,1 %
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r ndoor use of substances in clos n closed systems (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a Number of emission days per year	indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substance : 240 tonnes/day by risk management : 18.000 m3/d : 10 : 100 affecting environmental exposure : 365 : 0,1 % : 0,001 %
<ul> <li>ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r ndoor use of substances in closen n closed systems</li> <li>(Msafe)</li> <li>Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas)</li> <li>Other given operational conditions a Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil</li> </ul>	indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substance : 240 tonnes/day by risk management : 18.000 m3/d : 10 : 100 affecting environmental exposure : 365 : 0,1 % : 0,001 % : 0,001 %
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r indoor use of substances in close in closed systems (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil	indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substance : 240 tonnes/day by risk management : 18.000 m3/d : 10 : 100 affecting environmental exposure : 365 : 0,1 % : 0,001 % : 0,001 % / Organizational measures
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r indoor use of substances in close in closed systems (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a Number of emission days per year Emission or Release Factor: Water Emission or Release Factor: Water Emission or Release Factor: Soil	<pre>indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substance : 240 tonnes/day by risk management : 18.000 m3/d : 10 : 100 affecting environmental exposure : 365 : 0,1 % : 0,001 % : 0,001 % / Organizational measures : Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%): (Effectiveness: 0 %) : Risk from environmental exposure is driven by freshwater.</pre>
<ul> <li>ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r ndoor use of substances in closen n closed systems (Msafe)</li> <li>Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas)</li> <li>Other given operational conditions a Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil</li> <li>Fechnical conditions and measures Water</li> <li>Remarks</li> </ul>	<pre>indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substance : 240 tonnes/day by risk management : 18.000 m3/d : 10 iffecting environmental exposure : 365 : 0,1 % : 0,001 % : 0,001 % / Organizational measures : Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%): (Effectiveness: 0 %) : Risk from environmental exposure is driven by freshwater. : If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%): (Effectiveness: 0 %) : Common practices vary across sites thus conservative</pre>
<ul> <li>ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r indoor use of substances in close in closed systems</li> <li>(Msafe)</li> <li>Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas)</li> <li>Other given operational conditions at Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil</li> <li>Technical conditions and measures Water</li> <li>Remarks Water</li> </ul>	<pre>indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substance : 240 tonnes/day by risk management : 18.000 m3/d : 10 i 100 affecting environmental exposure : 365 : 0,1 % : 0,001 % : 0,001 % / Organizational measures : Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%): (Effectiveness: 0 %) : Risk from environmental exposure is driven by freshwater. : If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%): (Effectiveness: 0 %)</pre>
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of r indoor use of substances in close in closed systems (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil Technical conditions and measures Water Remarks Water Remarks	<ul> <li>indoor use of reactive substances in open systems, eactive substances in open systems, Wide dispersive ed systems, Wide dispersive outdoor use of substance</li> <li>: 240 tonnes/day</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> </ul> </li> <li>indoor methangement</li> <li>18.000 m3/d</li> <li>100</li> </ul> <li>affecting environmental exposure <ul> <li>365</li> <li>0,1 %</li> <li>0,001 %</li> </ul> </li> <li>/ Organizational measures <ul> <li>Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%): (Effectiveness: 0 %)</li> <li>Risk from environmental exposure is driven by freshwater.</li> <li>If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%): (Effectiveness: 0 %)</li> <li>Common practices vary across sites thus conservative process release estimates used.</li> <li>No wastewater treatment required.</li> </ul></li>

SAFETY	DATA	SHEET
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# TrusTec™ PRF Octane No. Blends 80-98

Version 1.13	Revision Date 2022-11-17
Flow rate of sewage treatment plant effluent	: 2.000 m3/d
Effectiveness (of a measure)	: 96,3 %
Percentage removed from waste	: 96,3 %
water Sludge Treetment	· No data available
Sludge Treatment Procedures to limit air emissions	: No data available : No data available
from Sewage Treatment Plant	
	o external treatment of waste for disposal
Remarks	: Combustion emissions limited by required exhaust emission
	controls. Combustion emissions considered in regional exposure
	assessment.
Conditions and measures related to	
Recovery Methods	: This substance is consumed during use and no waste of the substance is generated.
	olling worker exposure for: PROC1: Use in closed
process, no likelihood of expos	ure
Product characteristics	
Physical Form (at time of use)	: Liquid substance
Vapor pressure	: 2,8 kPa
Amount used	
Remarks	: No limit
Frequency and duration of use Remarks	· Covers deily expectives up to 8 hours (upless stated
Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect	ing workers exposure
Remarks	: Assumes a good basic standard of occupational hygiene is
	implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.
Technical conditions and measures	
Handle substance within a closed sy	ystem., Store substance within a closed system.
Organizational measures to preven	nt /limit releases, dispersion and exposure
Avoid direct skin contact with produc	ct. Identify potential areas for indirect skin contact. Wear gloves
	th substance likely. Clean up contamination/spills as soon as they
minimise exposures and to report ar	tion immediately. Provide basic employee training to prevent /
2.2. Contributing occupation	alling worker owneours for PDOC2. Use in sloped
continuous process with occasi	olling worker exposure for: PROC2: Use in closed, ional controlled exposure
Product characteristics	
Physical Form (at time of use)	: Liquid substance
Vapor pressure	: 2,8 kPa
Amount used	
Remarks	: No limit
Frequency and duration of use	
SDS Number:100000014260	20/420
505 Number. 1000000 14260	39/139

TrusTec™ PRF Octane N	SAFETY DATA SHEET
Version 1.13	Revision Date 2022-11-17
Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affeo Remarks	<ul> <li>cting workers exposure</li> <li>Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.</li> </ul>
Technical conditions and measure Handle substance within a closed s	
Avoid direct skin contact with product (tested to EN374) if hand contact vo occur. Wash off any skin contamination	nt /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop.
	rolling worker exposure for: PROC3, PROC16: Use in is or formulation), Using material as fuel sources, limited to be expected
<b>Product characteristics</b> Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affeo Remarks	<ul> <li>cting workers exposure</li> <li>Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.</li> </ul>
Technical conditions and measure Handle substance within a closed s	
Avoid direct skin contact with product (tested to EN374) if hand contact vo occur. Wash off any skin contamination	<b>nt /limit releases, dispersion and exposure</b> uct. Identify potential areas for indirect skin contact. Wear gloves vith substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop.
	rolling worker exposure for: PROC8a: Transfer of rging/discharging) from/to vessels/large containers at
Product characteristics Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit

TrusTec™ PRF Octane N	
Version 1.13	Revision Date 2022-11-1
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>ting workers exposure</li> <li>Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.</li> </ul>
Technical conditions and measure Drain down system prior to equipme	
Avoid direct skin contact with product (tested to EN374) if hand contact with occur. Wash off any skin contamination	nt /limit releases, dispersion and exposure ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / ny skin problems that may develop., Apply vessel entry procedures
	o personal protection, hygiene and health evaluation 74., Wear suitable coveralls to prevent exposure to the skin.
	olling worker exposure for: PROC8b: Transfer of ging/ discharging) from/ to vessels/ large containers at : Liquid substance
Vapor pressure	: 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>ting workers exposure</li> <li>Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.</li> </ul>
	<b>s</b> ystem., Use drum pumps or carefully pour from container., Ensure Clear transfer lines prior to de-coupling.
Handle substance within a closed substance within a closed substance operation is undertaken outdoors., Organizational measures to prevent Avoid direct skin contact with product (tested to EN374) if hand contact with	ystem., Use drum pumps or carefully pour from container., Ensure Clear transfer lines prior to de-coupling. <b>Int /limit releases, dispersion and exposure</b> ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they ttion immediately. Provide basic employee training to prevent /
Handle substance within a closed sy operation is undertaken outdoors. ( Organizational measures to preven Avoid direct skin contact with produc (tested to EN374) if hand contact with occur. Wash off any skin contamina minimise exposures and to report an	ystem., Use drum pumps or carefully pour from container., Ensure Clear transfer lines prior to de-coupling. <b>ht /limit releases, dispersion and exposure</b> ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they ition immediately. Provide basic employee training to prevent / ny skin problems that may develop.
Handle substance within a closed substance within a closed substance operation is undertaken outdoors. (Organizational measures to prevent Avoid direct skin contact with product (tested to EN374) if hand contact with occur. Wash off any skin contaminate minimise exposures and to report and the conditions and measures related to the conditions and the conditions are conditions and the conditions and the conditions are conditions and the conditions are conditions a	ystem., Use drum pumps or carefully pour from container., Ensure Clear transfer lines prior to de-coupling. <b>ht /limit releases, dispersion and exposure</b> ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they ition immediately. Provide basic employee training to prevent / ny skin problems that may develop.

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#### 3. Exposure estimation and reference to its source

#### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
ERC8b, ERC8e, ERC9a, ERC9b	Hydrocarbon Block Method with Petrorisk		Air		0,074 µg/m3	
			Freshwater		0,0058 µg/L	0,00015
			Freshwater sediment		0,0001 mg/kg	0,000073
			Marine water		0,066 ng/L	< 0,000017
			Marine sediment		0,0028 µg/kg	0,000002
			Agricultural soil		0,012 µg/kg	0,000021
ERC8e: Wide	e dispersive indoc e dispersive outdo e dispersive indoc	oor use of react	ive substances i	n open syst		

ERC9b: Wide dispersive outdoor use of substances in closed systems

#### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC1, CS15, CS67	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	0,05 mg/m3	0,000
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,000
PROC2, CS15	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	93,43 mg/m3	0,046
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,002
			Worker – long-term – systemic Combined routes		0,048
PROC3, CS15, CS107	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	116,79 mg/m3	0,057
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,058
PROC16, CS15, CS107	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	46,72 mg/m3	0,023
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,023
PROC8a, CS39, CS103	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	93,43 mg/m3	0,046
			Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,049
PROC8b, CS1, CS8	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	46,72 mg/m3	0,023
			Worker – dermal, long- term – systemic	1,372 mg/kg/d	0,002
			Worker – long-term – systemic Combined routes		0,025
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Version 1.13 Revision Date 2022-11-17 PROC8b, CS14 ECETOC TRA Worker - inhalation, 163,51 mg/m3 0,080 Modified long-term – systemic Worker - dermal, long-1,372 mg/kg/d 0,002 term – systemic 0.082 Worker – long-term – systemic Combined routes PROC1: Use in closed process, no likelihood of exposure CS15: General exposures (closed systems) CS67: Storage PROC2: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems) PROC3: Use in closed batch process (synthesis or formulation) CS15: General exposures (closed systems) CS107: (closed systems) PROC16: Using material as fuel sources, limited exposure to unburned product to be expected CS15: General exposures (closed systems) CS107: (closed systems) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS39: Equipment cleaning and maintenance CS103: Vessel and container cleaning PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS1: General exposures CS8: Drum/batch transfers PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS14: Bulk transfers Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on gualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). 1. Short title of Exposure Scenario: Manufacture Main User Groups : SU 3: Industrial uses: Uses of substances as such or in SDS Number:100000014260 43/139

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Sector of use	<ul> <li>preparations at industrial sites</li> <li>SU3, SU8, SU9: Industrial Manufacturing (all), Manufacture o bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals</li> </ul>
Process category	<ul> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC15: Use as laboratory reagent</li> </ul>
Environmental release category	: ERC1, ERC4: Manufacture of substances, Industrial use of processing aids in processes and products, not becoming par of articles
Further information	: Manufacture of the substance or use as an intermediate or process chemical or extraction agent. Includes recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).
2.1 Contributing scenario contro	lling environmental exposure for:ERC1. ERC4:
Manufacture of substances, Indu	Iling environmental exposure for:ERC1, ERC4: strial use of processing aids in processes and rticles : 3.000 tonnes/day
Manufacture of substances, Indu products, not becoming part of a (Msafe)	strial use of processing aids in processes and rticles : 3.000 tonnes/day
Manufacture of substances, Indu products, not becoming part of a (Msafe) Environment factors not influenced	<ul> <li>strial use of processing aids in processes and rticles</li> <li>3.000 tonnes/day</li> <li>by risk management</li> </ul>
Manufacture of substances, Indu products, not becoming part of a (Msafe) Invironment factors not influenced Flow rate	<ul> <li>strial use of processing aids in processes and rticles</li> <li>3.000 tonnes/day</li> <li>by risk management <ul> <li>18.000 m3/d</li> </ul> </li> </ul>
Ianufacture of substances, Indu roducts, not becoming part of a (Msafe) invironment factors not influenced	<ul> <li>strial use of processing aids in processes and rticles</li> <li>3.000 tonnes/day</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> </ul> </li> </ul>
Manufacture of substances, Indu products, not becoming part of a (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a	<ul> <li>strial use of processing aids in processes and rticles</li> <li>3.000 tonnes/day</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> <li>100</li> </ul> </li> </ul>
Manufacture of substances, Indu products, not becoming part of a (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a Continuous use/release	<ul> <li>strial use of processing aids in processes and rticles</li> <li>3.000 tonnes/day</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> <li>100</li> </ul> </li> <li>affecting environmental exposure</li> </ul>
Manufacture of substances, Indu products, not becoming part of a (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a Continuous use/release Number of emission days per year	<ul> <li>strial use of processing aids in processes and rticles</li> <li>3.000 tonnes/day</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> <li>100</li> </ul> </li> <li>affecting environmental exposure <ul> <li>300</li> </ul> </li> </ul>
Manufacture of substances, Indu products, not becoming part of a (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a Continuous use/release	<pre>strial use of processing aids in processes and rticles  : 3.000 tonnes/day  by risk management : 18.000 m3/d : 10 : 100  affecting environmental exposure  : 300 : 5 % : 0,003 %</pre>
Manufacture of substances, Indu products, not becoming part of a (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a Continuous use/release Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil	<ul> <li>strial use of processing aids in processes and rticles</li> <li>3.000 tonnes/day</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> <li>100</li> </ul> </li> <li>affecting environmental exposure <ul> <li>300</li> <li>5 %</li> <li>0,003 %</li> <li>0,01 %</li> </ul> </li> <li>/ Organizational measures <ul> <li>Treat air emission to provide the required removal efficiency of the second second</li></ul></li></ul>
Manufacture of substances, Indu oroducts, not becoming part of a (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a Continuous use/release Number of emission days per year Emission or Release Factor: Water Emission or Release Factor: Water Emission or Release Factor: Soil	<pre>strial use of processing aids in processes and rticles  : 3.000 tonnes/day  by risk management : 18.000 m3/d : 10 : 100  affecting environmental exposure  : 300 : 5 % : 0,003 % : 0,01 %  / Organizational measures : Treat air emission to provide the required removal efficiency of (%): (Effectiveness: 90 %) : Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%):</pre>
Manufacture of substances, Indu broducts, not becoming part of a (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions a Continuous use/release Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil Technical conditions and measures Air	<ul> <li>strial use of processing aids in processes and rticles</li> <li>3.000 tonnes/day</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> <li>100</li> </ul> </li> <li>affecting environmental exposure <ul> <li>300</li> <li>5 %</li> <li>0,003 %</li> <li>0,01 %</li> </ul> </li> <li>/ Organizational measures <ul> <li>Treat air emission to provide the required removal efficiency of (%): (Effectiveness: 90 %)</li> <li>Treat onsite wastewater (prior to receiving water discharge) to the required removal efficiency of the removal</li></ul></li></ul>

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Water	<ul> <li>sediment.</li> <li>If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%): (Effectiveness: 0 %)</li> </ul>
Remarks	: No wastewater treatment required.
Remarks	<ul> <li>Prevent discharge of undissolved substance to or recover from onsite wastewater.</li> </ul>
Remarks	: Common practices vary across sites thus conservative process release estimates used.
Conditions and measures related to Flow rate of sewage treatment plant effluent	<ul> <li>municipal sewage treatment plant</li> <li>10.000 m3/d</li> </ul>
Effectiveness (of a measure)	: 96,3 %
Percentage removed from waste water	
	. No data availabla
Sludge Treatment	: No data available : No data available
Procedures to limit air emissions from Sewage Treatment Plant	. INU UALA AVAIIADIE
Conditions and measures related to	external treatment of waste for disposal
Waste treatment	: During manufacturing no waste of the substance is generated.
Conditions and measures related to	•
Recovery Methods	: During manufacturing no waste of the substance is generated.
2.2 Contributing sconario contro	olling worker exposure for: PROC1: Use in closed
process, no likelihood of exposu	
Dreduct characteristics	
Product characteristics	
Physical Form (at time of use)	: Liquid substance
Amountucod	
Amount used Remarks	: No limit
Remarks	
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affecti	
Remarks	: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.
Technical conditions and measures Store substance within a closed system	
Avoid direct skin contact with produc	t /limit releases, dispersion and exposure t. Identify potential areas for indirect skin contact. Wear gloves th substance likely. Clean up contamination/spills as soon as they
	ion immediately. Provide basic employee training to prevent / y skin problems that may develop., No specific measures identified
	,
minimise exposures and to report an	
minimise exposures and to report an 2.2 Contributing scenario contro	olling worker exposure for: PROC2: Use in closed,
minimise exposures and to report an	olling worker exposure for: PROC2: Use in closed,
minimise exposures and to report an 2.2 Contributing scenario contro	olling worker exposure for: PROC2: Use in closed,
minimise exposures and to report an 2.2 Contributing scenario contro continuous process with occasio Product characteristics Physical Form (at time of use)	olling worker exposure for: PROC2: Use in closed, onal controlled exposure : Liquid substance
minimise exposures and to report an 2.2 Contributing scenario contro continuous process with occasio Product characteristics	olling worker exposure for: PROC2: Use in closed, onal controlled exposure

SAFETY DATA SHEET TrusTec™ PRF Octane No. Blends 80-98 Version 1.13 Revision Date 2022-11-17 Amount used Remarks : No limit Frequency and duration of use Remarks : Covers daily exposures up to 8 hours (unless stated differently) Other operational conditions affecting workers exposure : Assumes use at not more than 20°C above ambient Remarks temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented. Technical conditions and measures Handle substance within a closed system., Store substance within a closed system. Organizational measures to prevent /limit releases, dispersion and exposure Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. 2.2 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation) **Product characteristics** Physical Form (at time of use) : Liquid substance Amount used Remarks : No limit Frequency and duration of use Remarks : Covers daily exposures up to 8 hours (unless stated differently) Other operational conditions affecting workers exposure : Assumes use at not more than 20°C above ambient Remarks temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented. Technical conditions and measures Handle substance within a closed system. Organizational measures to prevent /limit releases, dispersion and exposure Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. 2.2 Contributing scenario controlling worker exposure for: PROC4, PROC15: Use in batch and other process (synthesis) where opportunity for exposure arises, Use as laboratory reagent Product characteristics Physical Form (at time of use) : Liquid substance SDS Number:100000014260 46/139

TrusTec™ PRF Octane No.	SAFETY DATA SHEET Blends 80-98
Version 1.13	Revision Date 2022-11-17
Amount used Remarks :	No limit
Frequency and duration of use Remarks :	Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affecting Remarks :	workers exposure Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.
<b>Technical conditions and measures</b> Handle substance within a closed syste	m., Store substance within a closed system.
(tested to EN374) if hand contact with s	dentify potential areas for indirect skin contact. Wear gloves ubstance likely. Clean up contamination/spills as soon as they immediately. Provide basic employee training to prevent /
	ng worker exposure for: PROC8a: Transfer of g/discharging) from/to vessels/large containers at
Product characteristics Physical Form (at time of use) :	Liquid substance
Amount used Remarks :	No limit
Frequency and duration of use Remarks :	Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affecting Remarks :	workers exposure Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.
(tested to EN374) if hand contact with s	dentify potential areas for indirect skin contact. Wear gloves ubstance likely. Clean up contamination/spills as soon as they immediately. Provide basic employee training to prevent /
Conditions and measures related to per Wear suitable gloves tested to EN374.	ersonal protection, hygiene and health evaluation
	ng worker exposure for: PROC8b: Transfer of g/ discharging) from/ to vessels/ large containers at
<b>Product characteristics</b> Physical Form (at time of use) :	Liquid substance
SDS Number:100000014260	47/139

	PRF Octan						
Version 1.13						Revisio	n Date 2022-11-1
Amount used Remarks		: No lii	mit				
Frequency and Remarks	d duration of use		ers daily exposur	es up	to 8 h	ours (unless	s stated
Romanie			ently)	00 up			
<b>Other operatio</b> Remarks	onal conditions a	: Assu temp	imes use at not r	stated	differ	ently., Assur	mes a good basic
	ditions and meas ance within a close						
Avoid direct s (tested to EN3 occur. Wash o minimise expo	I measures to pro kin contact with pr 374) if hand conta- off any skin contar osures and to repo	oduct. Identify ct with substar nination imme ort any skin pro	potential areas to nce likely. Clean diately. Provide to oblems that may	for ind up col basic (	lirect s ntamir emplo	skin contact. nation/spills yee training	as soon as they to prevent /
B. Exposure	estimation and	reference to	its source				
Environment							
Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value	e type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
ERC1, ERC4	Hydrocarbon Block Method with Petrorisk		Air			0,1 mg/m3	
			Fresh water			0,001 mg/L	0,026
			Fresh water Freshwater sediment			0,001 mg/L 0,043 mg/kg	0,026
			Freshwater sediment Marine water			0,043 mg/kg 0,0001 mg/L	0,03
			Freshwater sediment			0,043 mg/kg	0,03
	facture of substan trial use of proces		Freshwater sediment Marine water Marine sediment Agricultural soil	ducts,	, not b	0,043 mg/kg 0,0001 mg/L 0,0043 mg/kg 0,95 µg/kg	0,03 0,0026 0,003 0,0021
ERC4: Indus	facture of substan trial use of proces		Freshwater sediment Marine water Marine sediment Agricultural soil	ducts,		0,043 mg/kg 0,0001 mg/L 0,0043 mg/kg 0,95 µg/kg	0,03 0,0026 0,003 0,0021
ERC4: Indus Norkers/Cons Contributing Scenario PROC1, CS15,	facture of substan trial use of proces umers Exposure Assessment Method ECETOC TRA	sing aids in pro	Freshwater sediment Marine water Marine sediment Agricultural soil ocesses and pro Value type Worker – inhala	tion,	Level	0,043 mg/kg 0,0001 mg/L 0,0043 mg/kg 0,95 µg/kg ecoming pa	0,03 0,0026 0,003 0,0021 rt of articles Risk characterization
ERC4: Indus Norkers/Cons Contributing Scenario PROC1, CS15,	facture of substan trial use of proces umers Exposure Assessment Method	sing aids in pro	Freshwater sediment Marine water Marine sediment Agricultural soil ocesses and pro Value type Worker – inhalat long-term – syste Worker – dermal,	tion, emic long-	Level o	0,043 mg/kg 0,0001 mg/L 0,0043 mg/kg 0,95 µg/kg ecoming pa	0,03 0,0026 0,003 0,0021 rt of articles Risk characterization ratio (PEC/PNEC):
ERC4: Indus Norkers/Cons Contributing Scenario PROC1, CS15,	facture of substan trial use of proces umers Exposure Assessment Method ECETOC TRA	sing aids in pro	Freshwater sediment Marine water Marine sediment Agricultural soil ocesses and pro Value type Worker – inhalar long-term – syster Worker – dermal, term – system Worker – long-te systemic Combi	tion, emic long- ic rm –	Level o	0,043 mg/kg 0,0001 mg/L 0,0043 mg/kg 0,95 µg/kg ecoming pa of Exposure 5 mg/m3	0,03 0,0026 0,003 0,0021 rt of articles Risk characterization ratio (PEC/PNEC): 0,000
ERC4: Indus Norkers/Cons Contributing Scenario PROC1, CS15, CS67 PROC2, CS15,	facture of substan trial use of proces umers Exposure Assessment Method ECETOC TRA	sing aids in pro	Freshwater sediment Marine water Marine sediment Agricultural soil OCESSES and pro Value type Value type Worker – inhalai long-term – system Worker – long-te systemic Combi routes Worker – inhalai long-term – system	tion, emic long- ic rm – ned tion, emic	Level 0 0,0 0,34 46,7	0,043 mg/kg 0,0001 mg/L 0,0043 mg/kg 0,95 µg/kg ecoming pa of Exposure 5 mg/m3 4 mg/kg/d 2 mg/m3	0,03 0,0026 0,003 0,0021 rt of articles Risk characterization ratio (PEC/PNEC): 0,000 0,000 0,000 0,000 0,000
ERC4: Indus Norkers/Cons Contributing	facture of substan trial use of proces umers Exposure Assessment Method ECETOC TRA Modified	sing aids in pro	Freshwater sediment Marine water Marine sediment Agricultural soil OCESSES and pro Value type Value type Worker – inhalai long-term – system Worker – long-te systemic Combi routes Worker – inhalai long-term – system	tion, emic long- ic rm – ned tion, emic long-	Level 0 0,0 0,34 46,7	0,043 mg/kg 0,0001 mg/L 0,0043 mg/kg 0,95 μg/kg ecoming pa of Exposure 5 mg/m3 4 mg/kg/d	0,03 0,0026 0,003 0,0021 rt of articles Risk characterization ratio (PEC/PNEC): 0,000 0,000 0,000
ERC4: Indus Norkers/Cons Contributing Scenario PROC1, CS15, CS67 PROC2, CS15,	facture of substan trial use of proces umers Exposure Assessment Method ECETOC TRA Modified	sing aids in pro	Freshwater sediment Marine water Marine sediment Agricultural soil OCESSES and pro Value type Value type Worker – inhalat long-term – system Worker – dermal, term – system Worker – inhalat long-term – system Worker – inhalat long-term – system Worker – inhalat long-term – system Worker – inhalat long-term – system	tion, emic long- ic rm – ned tion, emic long- ic rm –	Level 0 0,0 0,34 46,7	0,043 mg/kg 0,0001 mg/L 0,0043 mg/kg 0,95 µg/kg ecoming pa of Exposure 5 mg/m3 4 mg/kg/d 2 mg/m3	0,03 0,0026 0,003 0,0021 rt of articles Risk characterization ratio (PEC/PNEC): 0,000 0,000 0,000 0,000 0,000
ERC4: Indus Norkers/Cons Contributing Scenario PROC1, CS15, CS67 PROC2, CS15,	facture of substan trial use of proces umers Exposure Assessment Method ECETOC TRA Modified	sing aids in pro	Freshwater sediment Marine water Marine sediment Agricultural soil OCESSES and pro Value type Value type Worker – inhalat long-term – system Worker – dermal, term – system Worker – inhalat long-term – system Worker – inhalat long-term – system Worker – inhalat long-term – system Worker – dermal, term – system	tion, emic long- ic rm – ned tion, emic long- ic rm – ned tion,	Level 0 0,0 0,34 46,7 1,37	0,043 mg/kg 0,0001 mg/L 0,0043 mg/kg 0,95 µg/kg ecoming pa of Exposure 5 mg/m3 4 mg/kg/d 2 mg/m3	0,03           0,0026           0,003           0,0021   rt of articles           Risk characterization           ratio (PEC/PNEC):           0,000           0,000           0,000           0,000           0,000           0,000           0,002

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Revision Date 2022-11-17

PROC4, CS16         ECETOC TRA         Worker - inhalation, ing-term - systemic         93,43 mg/m3         0.046           PROC4, CS16         ECETOC TRA         Worker - inhalation, worker - ing-term - systemic         93,43 mg/m3         0.046           PROC15, CS36         ECETOC TRA         Worker - inhalation, systemic Combined         0.055           PROC15, CS36         ECETOC TRA         Worker - inhalation, indiced         0.023           PROC15, CS36         ECETOC TRA         Worker - inhalation, indiced         0.023           PROC8a, CS39         ECETOC TRA         Worker - inhalation, indiced         0.023           PROC8a, CS39         ECETOC TRA         Worker - inhalation, issue - ing-term - systemic         233,58 mg/m3         0,115           PROC8a, CS2, ECETOC TRA         Worker - inhalation, issue - ing-term - systemic         233,58 mg/m3         0,116           PROC8a, CS2, ECETOC TRA         Worker - inhalation, issue - ing-term - systemic         233,58 mg/m3         0,118           PROC8b, CS2, ECETOC TRA         Worker - inhalation, issue - ing-term - systemic         233,58 mg/m3         0,118           PROC21: Use in closed process, no likelihood of exposure         0,118         0,114           Vorker - ing-term - systemic         0,124         0,009           PROC1: Use in closed process, no likelihood of exposure			term – systemic		
PROC4, CS16         ECETOC TRA Modified         Worker - Inhibition, lemm - systemic         93.43 mg/m3         0.046           PROC1, CS16         ECETOC TRA Modified         Worker - Inhibition, systemic         6.86 mg/kg/d         0.003           PROC15, CS36         ECETOC TRA Modified         Worker - Inhibition, systemic         0.34 mg/kg/d         0.023           PROC15, CS36         ECETOC TRA Modified         Worker - Inhibition, systemic         0.34 mg/kg/d         0.000           PROC8, CS39         ECETOC TRA Modified         Worker - Inhibition, systemic         233.58 mg/m3         0.115           PROC86, CS32,         ECETOC TRA Modified         Worker - Inhibition, systemic         233.58 mg/m3         0.116           PROC86, CS2,         ECETOC TRA Modified         Worker - Inhibition, systemic         233.58 mg/m3         0.116           PROC80, CS2,         ECETOC TRA Modified         Worker - Inhibition, systemic         233.58 mg/m3         0.116           PROC11         Use in closed process, no likelihood of exposure CS10         Worker - Inhibition, systemic         233.58 mg/m3         0.116           PROC21: Use in closed, continuous process (synthesis or formulation) CS10         CS10         0.0124         0.009           PROC23: Use in closed, continuous process (synthesis) where opportunity for exposure arises CS16: General exposures (closed systems)			Worker – long-term –		0,058
Modified         Iong-term = systemic term = systemic         0.000           PROC15, CS36         ECETOC TRA         Worker = honbined routes         0.034 mg/kg/d         0.000           PROC15, CS36         ECETOC TRA         Worker = honbined routes         0.34 mg/kg/d         0.000           PROC16, CS36         ECETOC TRA         Worker = honbined routes         0.34 mg/kg/d         0.000           PROC8a, CS39         ECETOC TRA         Worker = honbined routes         0.234 mg/kg/d         0.004           PROC8a, CS39         ECETOC TRA         Worker = honbined routes         0.234 mg/kg/d         0.004           PROC8b, CS2, CS10         ECETOC TRA         Worker = honbined routes         0.115         0.004           PROC8b, CS2, CS10         ECETOC TRA         Worker = demail, long- systemic Combined routes         0.116         0.118           PROC8b, CS2, CS10         ECETOC TRA         Worker = honbined routes         0.118         0.116           PROC21: Use in closed process, no likelihood of exposure CS15: General exposures (closed systems)         0.124         0.029           PROC22: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems)         0.124         0.124           PROC15: Use in closed batch process (synthesis or formulation)         CS15: General exposures (closed systems) <td></td> <td></td> <td>routes</td> <td></td> <td></td>			routes		
Worker - demail, long- term - systemic worker - long-term - systemic Combined         6.88 mg/kg/d         0.009           PROC15, CS36         ECETOC TRA Modified         Worker - Instalation, instalation, worker - Instalation, worker - Instalation, systemic Combined voltes         0.023           PROC8a, CS39         ECETOC TRA Modified         Worker - Instalation, worker - Instalation, voltes         0.34 mg/kg/d         0.000           PROC8a, CS39         ECETOC TRA Modified         Worker - Instalation, voltes         233.58 mg/m3         0.115           PROC8b, CS2, CS14, CS107,         ECETOC TRA Modified         Worker - Instalation, voltes         233.58 mg/m3         0.115           PROC9b, CS2, CS14, CS107,         ECETOC TRA Modified         Worker - Instalation, voltes         233.58 mg/m3         0.115           PROC9b, CS2, CS47, CS107,         ECETOC TRA Modified         Worker - Instalation, voltes         233.58 mg/m3         0.115           PROC9b, CS2, CS47, Storage         ECETOC TRA Worker - Instalation, CS15; General exposures (closed systems)         233.58 mg/m3         0.115           PROC1: Use in closed process, no likelihood of exposure CS15; General exposures (closed systems)         0.124         233.58 mg/m3         0.124           PROC21: Use in closed batch process (synthesis or formulation)         CS15; General exposures (closed systems)         0.124           PROC23: Use in closed batch process (synthes	PROC4, CS16		,	93,43 mg/m3	0,046
worker - insplem - systemic Combined routes         0,055           PROC15, CS38         ECETOC TRA Modified         Worker - insplasion, inspleme - systemic         0,223           PROC8, CS39         ECETOC TRA Modified         Worker - inspleme worker - inspleme - systemic Combined         0,34 mg/kg/d         0,000           PROC8a, CS39         ECETOC TRA Modified         Worker - inspleme worker - inspleme - systemic Combined         23,58 mg/m3         0,115           PROC8b, CS2, CS14, CS107,         ECETOC TRA Modified         Worker - inspleme, systemic Combined         2,742 mg/kg/d         0,004           PROC8b, CS2, CS14, CS107,         ECETOC TRA Modified         Worker - inspleme, systemic Combined         2,118         0,115           PROC21: Use in closed process, no likelihood of exposure CS15: General exposures (closed systems)         0,124         0,124           PROC2: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems)         0,124           PROC2: Use in closed process (synthesis or formulation) CS15: General exposures (closed systems)         CS67: Storage         0,023           PROC3: Use in closed batch process (synthesis) where opportunity for exposure arises CS16: General exposures (closed systems)         PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (closed systems)           PROC4: Use in batch and other process (synthesis) where opportunity for e			Worker – dermal, long-	6,86 mg/kg/d	0,009
PROC15, CS36         ECETOC TRA Modified         Worker – Inhilation, Iong-term – systemic         46,72 mg/m3         0.023           PROC15, CS36         ECETOC TRA Modified         Worker – Iong-term – systemic Combined routes         0.023         0.023           PROC8a, CS39         ECETOC TRA Modified         Worker – Iong-term – systemic         0.023         0.023           PROC8a, CS39         ECETOC TRA Modified         Worker – Iong-term – systemic         2.3,58 mg/m3         0,115           PROC8b, CS2, CS14, CS107,         ECETOC TRA Modified         Worker – Contend systemic         2.742 mg/kg/d         0.004           PROC8b, CS2, CS14, CS107,         ECETOC TRA Modified         Worker – Iong-term – systemic         2.3,58 mg/m3         0,115           CS14, CS107,         Modified         Iong-term – systemic         0.009         0.009           PROC21: Use in closed process, no likelihood of exposure CS15: General exposures (closed systems)         0.124         0.124           PROC22: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems)         CS67: Storage         PROC2: Use in closed batch process (synthesis or formulation)           CS15: General exposures (closed systems)         CS667: Storage         PROC2: Use as laboratory reagent         CS36: General exposures (closed systems)           PROC4: Use in batch and other process (synthesis)			Worker – long-term –		0,055
Modified         Iong-term - systemic Worker - demail, long- outes         0.34 mg/kg/d         0.000           PROC8a, CS39         ECETOC TRA         Worker - domail, long- outes         0.33.58 mg/m3         0.115           PROC8a, CS39         ECETOC TRA         Worker - domail, long- outes         233.58 mg/m3         0.115           PROC8a, CS39         ECETOC TRA         Worker - domail, long- learn - systemic         0.742 mg/kg/d         0.004           PROC8b, CS2, ECETOC TRA         Worker - long-term - systemic Combined         0.118         0.115           Systemic Combined         0.118         vorker - inhalation, long-term - systemic         0.009           PROC2b, CS2, ECETOC TRA         Worker - long-term - systemic         0.116         0.116           Systemic Combined         0.118         vorker - inhalation, long-term - systemic         0.116           PROC2b, CS2, ECETOC TRA         Worker - long-term - systemic         0.114         0.114           Vorker - long-term - systemic         0.116         0.009         1000           ES108         Worker - long-term - systemic         0.124         0.009           PROC1: Use in closed process, no likelihood of exposure CS16: General exposures (closed systems)         0.567: Storage         PROC2: Use in closed batch process (synthesis or formulation) CS15: General exposures (closed systems)					
Worker - dermal, long- mail systemic Combined worker - inhalation, iong-term - systemic worker - inhalation, iong-term - systemic worker - inhalation, iong-term - systemic worker - inhalation, costa         233,58 mg/m3         0,115           PROC8a, CS39         ECETOC TRA Modified         Worker - inhalation, worker - inhalation, costa         233,58 mg/m3         0,115           PROC8b, CS2, CS14, CS107, CS14, CS107, CS14, CS107, CS14, CS107, CS14, CS107, CS16         ECETOC TRA Worker - inhalation, iong-term - systemic worker - inhalation, worker - inhalation, worker - inhalation, worker - inhalation, worker - inhalation, worker - inhalation, worker - inhalation, iong-term - systemic         0,118           PROC1: Use in closed process, no likelihood of exposure CS15: General exposures (closed systems) CS67: Storage         6,86 mg/kg/d         0.009           PROC2: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems)         0,124           PROC2: Use in closed batch process (synthesis or formulation) CS16: General exposures (closed systems)         0,009           PROC2: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (closed systems)         0,000           PROC3: Use as laboratory reagent CS39: Equipment cleaning and maintenance         PROC8a: Transfer of substance or preparation (charging/discharging) from/ to vessels/large containers at non-decloated facilities CS2: Process sampling CS107: (closed systems)           CS108: (open systems)         CS108: (open systems)           CS108: (open systems) <td>PROC15, CS36</td> <td></td> <td></td> <td>46,72 mg/m3</td> <td>0,023</td>	PROC15, CS36			46,72 mg/m3	0,023
PROC8a, CS39         ECETOC TRA Modified         Worker - instalation, iong-term - systemic         233,58 mg/m3         0,115           PROC8a, CS39         ECETOC TRA Modified         Worker - instalation, iong-term - systemic         2,742 mg/kg/d         0,004           PROC8b, CS2, CS14, CS107, CS110         ECETOC TRA Modified         Worker - instalation, iong-term - systemic         2,742 mg/kg/d         0,004           PROC8b, CS2, CS14, CS107, CS110         ECETOC TRA Modified         Worker - instalation, iong-term - systemic         233,58 mg/m3         0,115           PROC7:         Use in closed process, no likelihood of vortes         6.86 mg/kg/d         0.009         0.009           PROC1:         Use in closed process, no likelihood of exposure CS15: General exposures (closed systems)         0,124         0.124           PROC2:         Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems)         0.124           PROC3:         Use in closed batch process (synthesis or formulation)         CS15: General exposures (closed systems)           PROC4:         Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems)           PROC8a:         Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-decloated facilities CS39: Equipment cleaning and maintenance           PROC8b:         Transfer of s			Worker – dermal, long-	0,34 mg/kg/d	0,000
PROC8a, CS39         ECETOC TRA Modified         Contest Worker - Inhalation, Iong-term - systemic         233,58 mg/m3         0,115           PROC8b, CS2, CS14, CS107,         ECETOC TRA Modified         Worker - demal, long- systemic         2,742 mg/kg/d         0,004           PROC8b, CS2, CS14, CS107,         ECETOC TRA Modified         Worker - inhalation, Iong-term - systemic         233,58 mg/m3         0,115           CS14, CS107,         ECETOC TRA Modified         Worker - demal, long- systemic         6,86 mg/kg/d         0,009           PROC2b, CS2, CS10,         ECETOC TRA Modified         Worker - demal, long- systemic         6,86 mg/kg/d         0,009           PROC21: Use in closed process, no likelihood of exposure CS15: General exposures (closed systems) CS67: Storage         Worker - long-term - routes         0,124           PROC22: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems) CS67: Storage         PROC3: Use in closed batch process (synthesis or formulation) CS15: General exposures (closed systems)         PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems)           PROC28: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS2: Process sampling CS2: Process sampling CS2: Process sampling CS108: (open systems)         CS107: (closed systems)           S108: (open systems)         CS107: (closed systems)         CS1			Worker – long-term –		0,023
Modified         Iong-term – systemic         2.742 mg/kg/d         0.004           PROC8b. C52.         ECETOC TRA         Worker – demail, long- systemic Combined routes         2.742 mg/kg/d         0.004           CS14. C5107.         ECETOC TRA         Worker – inhalation, routes         233.58 mg/m3         0.115           CS14. C5107.         Modified         Worker – demail, long- routes         6.86 mg/kg/d         0.009           PROC1:         Use in closed process, no likelihood of exposure CS15: General exposures (closed systems) CS67: Storage         0.124           PROC2:         Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems) CS67: Storage         0.024           PROC3:         Use in batch and other process (synthesis or formulation) CS15: General exposures (closed systems)         CS16: General exposures (closed systems)           PROC4:         Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems)           PROC4:         Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems)           PROC4:         Use in batch and other process (synthesis) where opportunity for vessels/large containers at non-dedicated facilities           CS39:         Equipment cleaning and maintenance           PROC8b:         Transfer of substance or preparation (charging/ discharging) from/ to v					
Worker - demail. tong-         2.742 mg/kg/d         0.004           term - systemic         0.118           PROCEb. CS2, CS14, CS107, CS14, CS107, CS14, CS107, CS108         ECETOC TRA Modified         Worker - inhalation, iong-term - systemic         233,58 mg/m3         0.115           PROCEb. CS2, CS14, CS107, CS108         ECETOC TRA Modified         Worker - demail. long- eterm - systemic         233,58 mg/m3         0.115           PROC1: Use in closed process, no likelihood of exposure CS15: General exposures (closed systems)         0.124         0.009           PROC2: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems)         0.124           PROC3: Use in closed batch process (synthesis or formulation)         CS15: General exposures (closed systems)         0.125           PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems)         PROC15: Use as laboratory reagent         CS36: Laboratory activities           PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities         CS39: Equipment cleaning and maintenance           PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities         CS107: (closed systems)         CS107: (closed systems)           CS107: (closed systems)         CS107: (closed systems)         CS107: (closed systems)	PROC8a, CS39			233,58 mg/m3	0,115
BROC8b. CS2.         ECETOC TRA Modified         Worker - long-term - systemic Combined routes         0,118           CS14, CS107, CS14, CS107, CS16         Modified         Worker - dermal, long- term - systemic         233,58 mg/m3         0,115           Vorker - long-term - Systemic Combined         0,009         0,009         0,009           Worker - long-term - systemic Combined         0,124         0,009           PROC1:         Use in closed process, no likelihood of exposure CS15; General exposures (closed systems)         0,124           CS67:         Storage         PROC2:         Use in closed, continuous process with occasional controlled exposure CS15; General exposures (closed systems)         CS67:           CS67:         Storage         PROC3:         Use in closed batch process (synthesis or formulation)           CS15:         General exposures (closed systems)         PROC4:         Use in batch and other process (synthesis) where opportunity for exposure arises           CS16:         General exposures (open systems)         PROC15:         Use as laboratory reagent           CS38:         Laboratory activities         PROC8a:         Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities           CS2:         Process sampling         CS2: Process sampling         CS107:           CS107:         Clobed systems)		Modillou	Worker – dermal, long-	2,742 mg/kg/d	0,004
PROC8b, CS2, CS14, CS107,         ECETOC TRA Modified         Worker - Inhalation, Iong-term - systemic         233,58 mg/m3         0,115           CS14, CS107, CS108         Modified         Worker - lermal, long- term - systemic         0,009         0,009           PROC1:         Use in closed process, no likelihood of exposure CS15:         General exposures (closed systems)         0,124           PROC2:         Use in closed, continuous process with occasional controlled exposure CS15:         General exposures (closed systems)         CS67:           CS67:         Storage         PROC2:         Use in closed batch process (synthesis or formulation)         CS15:           CS15:         General exposures (closed systems)         CS67:         Storage           PROC2:         Use in closed batch process (synthesis or formulation)         CS15:           CS15:         General exposures (closed systems)         PROC4:         Use in batch and other process (synthesis) where opportunity for exposure arises           CS16:         General exposures (open systems)         PROC4:         Use as laboratory reagent           CS36:         Laboratory activities         PROC8b:         Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities           CS29:         Equipment cleaning and maintenance         PROC2b:         Transfer of substance or preparation (charg					0,118
PROC8b, C52, C514, C5107, C514, C5107, C514, C5107, C5108       ECETOC TRA Modified       Worker - inhalation, long-term - systemic       233,58 mg/m3       0,115         Question       Worker - demail, long- term - systemic       6,86 mg/kg/d       0,009         PROC1: Use in closed process, no likelihood of exposure C515: General exposures (closed systems) C567: Storage       0,124         PROC2: Use in closed, continuous process with occasional controlled exposure C515: General exposures (closed systems) C567: Storage       PROC3: Use in closed batch process (synthesis or formulation) C515: General exposures (closed systems)         PROC3: Use in closed batch process (synthesis or formulation) C515: General exposures (closed systems)       PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises C516: General exposures (open systems)         PROC15: Use as laboratory reagent C536: Laboratory activities       PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities C539: Equipment cleaning and maintenance         PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities C52: Process sampling C5108: (open systems)         C5108: (open systems)       C5108: (open systems)			systemic Combined		
Worker - demail, long- term - systemic         6.86 mg/kg/d         0,009           Worker - long-term - systemic Combined         0,124           PROC1: Use in closed process, no likelihood of exposure CS15: General exposures (closed systems)         0,124           PROC2: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems)         0,124           PROC2: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems)         0,009           PROC3: Use in closed batch process (synthesis or formulation)         CS15: General exposures (closed systems)           PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems)           PROC15: Use as laboratory reagent           CS39: Equipment cleaning and maintenance           PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities           CS39: Equipment cleaning and maintenance           PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities           CS2: Process sampling           CS108: (open systems)           CS108: (open systems)           CS108: (open systems)           CS108: (open systems)	CS14, CS107,		Worker – inhalation,	233,58 mg/m3	0,115
Worker - long-term - systemic Combined routes         0,124           PROC1: Use in closed process, no likelihood of exposure CS15: General exposures (closed systems)         0           CS67: Storage         PROC2: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems)         0           CS67: Storage         PROC3: Use in closed process, (synthesis or formulation)         0           CS15: General exposures (closed systems)         CS67: Storage           PROC3: Use in closed batch process (synthesis or formulation)         CS15: General exposures (closed systems)           PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises         CS16: General exposures (open systems)           PROC15: Use as laboratory reagent         CS36: Laboratory activities           PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities         CS39: Equipment cleaning and maintenance           PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities         CS21? Process sampling           CS14: Bulk transfers         CS108: (open systems)         CS108: (open systems)           CS108: (open systems)         CS108: (open systems)         CS108: (open systems)	CS108			6,86 mg/kg/d	0,009
PROC1: Use in closed process, no likelihood of exposure CS15: General exposures (closed systems) CS67: Storage           PROC2: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems) CS67: Storage           PROC3: Use in closed batch process (synthesis or formulation) CS15: General exposures (closed systems)           PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems)           PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems)           PROC15: Use as laboratory reagent CS36: Laboratory activities           PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS39: Equipment cleaning and maintenance           PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS2: Process sampling CS14: Bulk transfers CS107: (closed systems) CS108: (open systems)           4. Guidance to Downstream User to evaluate whether he works inside the boundaries set					0 124
<ul> <li>PROC1: Use in closed process, no likelihood of exposure CS15: General exposures (closed systems) CS67: Storage</li> <li>PROC2: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems) CS67: Storage</li> <li>PROC3: Use in closed batch process (synthesis or formulation) CS15: General exposures (closed systems)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems)</li> <li>PROC15: Use as laboratory reagent CS36: Laboratory activities</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS39: Equipment cleaning and maintenance</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS2: Process sampling CS14: Bulk transfers</li> <li>CS107: (closed systems)</li> <li>CS107: (closed systems)</li> <li>CS108: (open systems)</li> <li>A. Guidance to Downstream User to evaluate whether he works inside the boundaries set</li> </ul>			systemic Combined		0,121
CS15: General exposures (closed systems) CS67: Storage PROC2: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems) CS67: Storage PROC3: Use in closed batch process (synthesis or formulation) CS15: General exposures (closed systems) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems) PROC15: Use as laboratory reagent CS36: Laboratory activities PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS39: Equipment cleaning and maintenance PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS29: Process sampling CS14: Bulk transfers CS107: (closed systems) CS108: (open systems)	PROC1: Use	in closed process			II
PROC2: Use in closed, continuous process with occasional controlled exposure CS15: General exposures (closed systems) CS67: Storage PROC3: Use in closed batch process (synthesis or formulation) CS15: General exposures (closed systems) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems) PROC15: Use as laboratory reagent CS36: Laboratory activities PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS39: Equipment cleaning and maintenance PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS22: Process sampling CS14: Bulk transfers CS107: (closed systems) CS108: (open systems)			ed systems)		
CS15: General exposures (closed systems) CS67: Storage PROC3: Use in closed batch process (synthesis or formulation) CS15: General exposures (closed systems) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems) PROC15: Use as laboratory reagent CS36: Laboratory activities PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS39: Equipment cleaning and maintenance PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS2: Process sampling CS14: Bulk transfers CS107: (closed systems) CS108: (open systems)	CS67: Storag	je			
CS15: General exposures (closed systems) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS16: General exposures (open systems) PROC15: Use as laboratory reagent CS36: Laboratory activities PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS39: Equipment cleaning and maintenance PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS2: Process sampling CS14: Bulk transfers CS107: (closed systems) CS108: (open systems) 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set	CS15: Gener	al exposures (clos	•	lled exposure	
<ul> <li>CS16: General exposures (open systems)</li> <li>PROC15: Use as laboratory reagent</li> <li>CS36: Laboratory activities</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>CS39: Equipment cleaning and maintenance</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>CS2: Process sampling</li> <li>CS14: Bulk transfers</li> <li>CS107: (closed systems)</li> <li>CS108: (open systems)</li> </ul> 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set					
<ul> <li>CS36: Laboratory activities</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>CS39: Equipment cleaning and maintenance</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>CS2: Process sampling</li> <li>CS14: Bulk transfers</li> <li>CS107: (closed systems)</li> <li>CS108: (open systems)</li> </ul> 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set				unity for exposure	e arises
<ul> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>CS39: Equipment cleaning and maintenance</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>CS2: Process sampling</li> <li>CS14: Bulk transfers</li> <li>CS107: (closed systems)</li> <li>CS108: (open systems)</li> <li><b>4. Guidance to Downstream User to evaluate whether he works inside the boundaries set</b></li> </ul>			agent		
at non-dedicated facilities CS39: Equipment cleaning and maintenance PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS2: Process sampling CS14: Bulk transfers CS107: (closed systems) CS108: (open systems) <b>4. Guidance to Downstream User to evaluate whether he works inside the boundaries set</b>	C536: Labora	atory activities			
containers at dedicated facilities CS2: Process sampling CS14: Bulk transfers CS107: (closed systems) CS108: (open systems) <b>4. Guidance to Downstream User to evaluate whether he works inside the boundaries set</b>	at non-dedica	ated facilities		ing) from/to vesse	els/large containers
CS14: Bulk transfers CS107: (closed systems) CS108: (open systems) 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set				ging) from/ to ves	sels/ large
CS107: (closed systems) CS108: (open systems) 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set					
CS108: (open systems) 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set					
			User to evaluate whether he v	vorks inside the	e boundaries set
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PROC10: Roller application or brushing PROC15: Use as laboratory reagent         Environmental release category       :         Environmental release category       :         ERC2, ERC4: Formulation of preparations, Industrial use processing aids in processes and products, not becoming of articles         Further information       :         Use of the substance within laboratory settings, including material transfers and equipment cleaning.         2.1 Contributing scenario controlling environmental exposure for:ERC2, ERC4: Formulation of preparations, Industrial use of processing aids in processes and products, not becoming part of articles         Maximum allowable site tonnage       : 900 (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe)         Environment factors not influenced by risk management Flow rate       : 18.000 m3/d Dilution Factor (River)         Flow rate       : 18.000 m3/d Dilution Factor (Coastal Areas)         Other given operational conditions affecting environmental exposure Continuous use/release	Measures/Operational Conditions Available hazard data do not enab Risk Management Measures are b Where other Risk Management Me ensure that risks are managed to a	cted to exceed the DN(M)EL when the Risk Management outlined in Section 2 are implemented. ble the derivation of a DNEL for dermal irritant effects. based on qualitative risk characterisation. easures/Operational Conditions are adopted, then users should at least equivalent levels.Guidance is based on assumed bt be applicable to all sites; thus, scaling may be necessary to k management measures.
attached in PETRORISK file – "Site-Specific Production" worksheet.         1. Short title of Exposure Scenario: Use as a laboratory agent – industrial         Main User Groups       : SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites         Sector of use       : SU3: Industrial Manufacturing (all)         Process category       : PROC1: Use in closed process, no likelihood of exposure PROC15: Roller application or brushing PROC15: Use as laboratory reagent         Environmental release category       : ERC2, ERC4: Formulation of preparations, Industrial use processing aids in processes and products, not becoming of articles         Further information       :         Use of the substance within laboratory settings, including material transfers and equipment cleaning.         2.1 Contributing scenario controlling environmental exposure for:ERC2, ERC4: Formulation of preparations, Industrial use of processing aids in processes and products, not becoming of articles         Maximum allowable site tonnage       : 900 (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe)         Environment factors not influenced by risk management Flow rate       : 18.000 m3/d         Dilution Factor (River)       : 10         Dilution Factor (River)       : 10	either alone or in combination. Required removal efficiency for air combination. Further details on scaling and con	r can be achieved using on-site technologies, either alone or in trol technologies are provided in SpERC factsheet
Main User Groups       :       SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites         Sector of use       :       SU3: Industrial Manufacturing (all)         Process category       :       PROC1: Use in closed process, no likelihood of exposure PROC15: Use as laboratory reagent         Environmental release category       :       ERC2, ERC4: Formulation of preparations, Industrial use processing aids in processes and products, not becoming of articles         Further information       :       Use of the substance within laboratory settings, including material transfers and equipment cleaning.         2.1 Contributing scenario controlling environmental exposure for:ERC2, ERC4: Formulation of preparations, Industrial use of processing aids in processes and products, not becoming material transfers and equipment cleaning.         2.1 Contributing scenario controlling environmental exposure for:ERC2, ERC4: Formulation of preparations, Industrial use of processing aids in processes and products, not becoming part of articles         Maximum allowable site tonnage       : 900 (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe)         Environment factors not influenced by risk management Flow rate       : 18.00 m3/d         Flow rate       : 18.000 m3/d         Dilution Factor (Coastal Areas)       : 100         Other given operational conditions affecting environmental exposure Continuous use/release		
Sector of use       preparations at industrial sites         Sector of use       SU3: Industrial Manufacturing (all)         Process category       PROC1: Use in closed process, no likelihood of exposure PROC10: Roller application or brushing PROC15: Use as laboratory reagent         Environmental release category       ERC2, ERC4: Formulation of preparations, Industrial use processing aids in processes and products, not becoming of articles         Further information       Use of the substance within laboratory settings, including material transfers and equipment cleaning.         2.1 Contributing scenario controlling environmental exposure for:ERC2, ERC4: Formulation of preparations, Industrial use of processing aids in processes and products, not becoming part of articles         Maximum allowable site tonnage       900 (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe)         Environment factors not influenced by risk management Flow rate       18.000 m3/d 10 10 10 10 10 10 10 10 10 10 10 10 10	1. Short title of Exposure Scenario: Us	e as a laboratory agent – industrial
Further information       :         Second products, not becoming of articles         Further information       :         Use of the substance within laboratory settings, including material transfers and equipment cleaning.         2.1 Contributing scenario controlling environmental exposure for:ERC2, ERC4:         Formulation of preparations, Industrial use of processing aids in processes and products, not becoming part of articles         Maximum allowable site tonnage       : 900 (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe)         Environment factors not influenced by risk management Flow rate       : 18.000 m3/d         Dilution Factor (River)       : 10         Dilution Factor (Coastal Areas)       : 100         Other given operational conditions affecting environmental exposure Continuous use/release	Sector of use	<ul> <li>preparations at industrial sites</li> <li>SU3: Industrial Manufacturing (all)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC10: Roller application or brushing</li> </ul>
Use of the substance within laboratory settings, including material transfers and equipment cleaning. 2.1 Contributing scenario controlling environmental exposure for:ERC2, ERC4: Formulation of preparations, Industrial use of processing aids in processes and products, not becoming part of articles Maximum allowable site tonnage : 900 (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe) Environment factors not influenced by risk management Flow rate : 18.000 m3/d Dilution Factor (River) : 10 Dilution Factor (Coastal Areas) : 100 Other given operational conditions affecting environmental exposure Continuous use/release	Environmental release category	: <b>ERC2, ERC4:</b> Formulation of preparations, Industrial use of processing aids in processes and products, not becoming part of articles
Formulation of preparations, Industrial use of processing aids in processes and products, not becoming part of articles         Maximum allowable site tonnage : 900         (MSafe) based on release         following total wastewater         treatment removal (kg/d):(Msafe)         Environment factors not influenced by risk management         Flow rate       18.000 m3/d         Dilution Factor (River)       10         Dilution Factor (Coastal Areas)       100         Other given operational conditions affecting environmental exposure         Continuous use/release	Further information	: Use of the substance within laboratory settings, including material transfers and equipment cleaning.
Flow rate       : 18.000 m3/d         Dilution Factor (River)       : 10         Dilution Factor (Coastal Areas)       : 100         Other given operational conditions affecting environmental exposure         Continuous use/release	Formulation of preparations, Indu products, not becoming part of a Maximum allowable site tonnage (MSafe) based on release following total wastewater	ustrial use of processing aids in processes and rticles
Continuous use/release	Flow rate Dilution Factor (River)	: 18.000 m3/d : 10
Emission or Release Factor: Water : 2,0 %	Continuous use/release Number of emission days per year Emission or Release Factor: Air	: 20 : 2,5 %
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Emission or Release Factor: Soil	: 0,01 %
Technical conditions and measure	s / Organizational measures
Air	: Treat air emission to provide the required removal efficiency o
Water	<ul> <li>(%): (Effectiveness: 0 %)</li> <li>Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%):</li> </ul>
Remarks	<ul> <li>(Effectiveness: 66,5 %)</li> <li>Risk from environmental exposure is driven by freshwater sediment.</li> </ul>
Water	<ul> <li>If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%):</li> <li>(Effectiveness: 0 %)</li> </ul>
Remarks	<ul> <li>If discharging to domestic sewage treatment plant, no onsite wastewater treatment required.</li> </ul>
Remarks Remarks	<ul> <li>Do not apply industrial sludge to natural soils.</li> <li>Sludge should be incinerated, contained or reclaimed.</li> </ul>
	o municipal sewage treatment plant
Type of Sewage Treatment Plant Flow rate of sewage treatment plant effluent	: Municipal sewage treatment plant : 2.000 m3/d
Effectiveness (of a measure)	: 96,3 %
Percentage removed from waste water	: 96,3 %
Sludge Treatment	: No data available
Procedures to limit air emissions from Sewage Treatment Plant	: No data available
Waste treatment	<ul> <li>o external treatment of waste for disposal</li> <li>External treatment and disposal of waste should comply with applicable local and/or national regulations.</li> </ul>
Conditions and measures related t Recovery Methods	<ul> <li>o external recovery of waste</li> <li>External recovery and recycling of waste should comply with applicable local and/or national regulations.</li> </ul>
2.2 Contributing scenario contr brushing	olling worker exposure for: PROC10: Roller application o
Product characteristics	
Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	Covers deily experience up to 9 hours (uplace stated
Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect	
Remarks	: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.
Avoid direct skin contact with produ (tested to EN374) if hand contact w	<b>nt /limit releases, dispersion and exposure</b> ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they ition immediately. Provide basic employee training to prevent /

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minimise exposures and to report any skin problems that may develop.

#### **Conditions and measures related to personal protection, hygiene and health evaluation** Wear suitable gloves tested to EN374.

# 2.2 Contributing scenario controlling worker exposure for: PROC15: Use as laboratory reagent

se) : Liquid substance : 2,8 kPa
: No limit
use
: Covers daily exposures up to 8 hours (unless stated differently)
s affecting workers exposure
: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.

#### Organizational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop., No specific measures identified.

#### 3. Exposure estimation and reference to its source

#### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
ERC2, ERC4	Hydrocarbon Block Method with Petrorisk		Air		0,13 µg/m3	
			Freshwater		0,0037 mg/L	0,098
			Freshwater sediment		0,16 mg/kg	0,11
			Marine water		0,37 µg/L	0,0098
			Marine sediment		0,016 mg/kg	0,011
			Agricultural soil		0,0019 µg/kg	< 0,00002

ERC2: Formulation of preparations

ERC4: Industrial use of processing aids in processes and products, not becoming part of articles

#### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC10, CS47	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
			Worker – dermal, long- term – systemic	5,486 mg/kg/d	0,007
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			Worker – long-term – systemic Combined routes		0,122
PROC15, CS36	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	46,72 mg/m3	0,023
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,023
PROC10: Rc CS47: Clean	oller application or	brushing			
	C C				
	e as laboratory rea atory activities	agent			
4. Guidance to by the Expos		User to ev	valuate whether he w	orks inside th	e boundaries set
Measures/ Available h Risk Mana Where oth ensure tha operating of define app Required r either alon Required r combination Further de (http://cefion	Operational Cond hazard data do not igement Measures er Risk Managem it risks are manage conditions which m ropriate site-speci removal efficiency e or in combinatio emoval efficiency on. tails on scaling an c.org/en/reach-for- Exposure Scenario	itions outline enable the are based ent Measure ed to at leas hay not be a fic risk man for wastewa n. for air can b d control tea industries-li	a laboratory agent –	emented. r dermal irritant e cterisation. Is are adopted, th ance is based on Is, scaling may b ng onsite/offsite t e technologies, e in SpERC factsh professional	ffects. nen users should assumed e necessary to echnologies, ither alone or in eet
Main User G Sector of use		ed : <b>Sl</b>	J 22: Professional uses: lucation, entertainment, J 22: Professional uses:	services, craftsm Public domain (a	en) administration,
Process cate	egory	: PF	lucation, entertainment, ROC10: Roller applicatio ROC15: Use as laborato	n or brushing	en)
Environment	al release categor	•	RC8a: Wide dispersive in en systems	ndoor use of proc	essing aids in
Further inforr	mation		se of the substance withi aterial transfers and equ		ngs, including
			environmental expos	ure for:ERC8a	: Wide
uspersive in	uoor use of pro	cessing a	ids in open systems		
	owable site tonnaç ed on release	ge : 14	Ļ		
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following total wastewater treatment removal (kg/d):(Msafe)	
Environment factors not influenced	
	: 18.000 m3/d
	: 10
Dilution Factor (Coastal Areas)	: 100
Other given operational conditions	affecting environmental exposure
Continuous use/release	-
Number of emission days per year	
Emission or Release Factor: Air	: 50 %
Emission or Release Factor: Water	
Emission or Release Factor: Soil	: 0%
Technical conditions and measures	/ Organizational measures
Air	: Treat air emission to provide the required removal efficiency of
	(%): (Effectiveness: 0 %)
Water	: Treat onsite wastewater (prior to receiving water discharge) to
-	provide the required removal efficiency of $\geq$ (%):
	(Effectiveness: 0 %)
Remarks	: Risk from environmental exposure is driven by freshwater.
Water	: If discharging to domestic sewage treatment plant, provide the
	required onsite wastewater removal efficiency of $\geq$ (%):
	(Effectiveness: 0 %)
Remarks	: No wastewater treatment required.
Conditions and measures related to	
	: Municipal sewage treatment plant
Flow rate of sewage treatment	: 2.000 m3/d
plant effluent	
Effectiveness (of a measure)	: 96,3 %
Percentage removed from waste	: 96,3 %
water	
Conditions and measures related to	external treatment of waste for disposal
Waste treatment	: External treatment and disposal of waste should comply with
	applicable local and/or national regulations.
Conditions and measures related to	external recovery of waste
Recovery Methods	: External recovery and recycling of waste should comply with
	applicable local and/or national regulations.
2.2 Contributing scenario contro	Iling worker exposure for: PROC10: Roller application of
brushing	
Physical Form (at time of use)	: Liquid substance
	: Liquid substance : 2,8 kPa
Physical Form (at time of use) Vapor pressure	
Physical Form (at time of use) Vapor pressure	
Physical Form (at time of use) Vapor pressure Amount used	: 2,8 kPa
Vapor pressure Amount used Remarks	: 2,8 kPa
Physical Form (at time of use) Vapor pressure Amount used Remarks	: 2,8 kPa : No limit
Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use	: 2,8 kPa
Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use Remarks	<ul> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> </ul>
Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use Remarks Other operational conditions affecti	<ul> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ng workers exposure</li> </ul>
Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use	<ul> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> </ul>
Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use Remarks Other operational conditions affecti	<ul> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ng workers exposure</li> </ul>

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temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.

temperature, unless stated differently., Assumes a good basic

standard of occupational hygiene is implemented.

#### **Technical conditions and measures**

Handle in a fume cupboard or under extract ventilation.

#### Organizational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

# 2.2 Contributing scenario controlling worker exposure for: PROC15: Use as laboratory reagent

Product characteristics Physical Form (at time of use)	: Liquid substance
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	ting workers exposure : Assumes use at not more than 20°C above ambient

Technical conditions and measures

Handle in a fume cupboard or under extract ventilation.

#### Organizational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

#### 3. Exposure estimation and reference to its source

#### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
ERC8a	Hydrocarbon Block Method with Petrorisk		Air		0,074 µg/m3	
			Freshwater		0,0077 µg/L	0,0002
			Freshwater		0,00011	0,000076
			sediment		mg/kg	
			Marine water		0,00025 µg/L	< 0,000007
			Marine sediment		0,000011 mg/kg	< 0,00008
			Agricultural soil		0,047 µg/kg	0,00008
ERC8a: Wide	e dispersive indoc	or use of proces	ssing aids in ope	n systems		
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#### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC10, CS47	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	93,43 mg/m3	0,046
			Worker – dermal, long- term – systemic	1,3715 mg/kg/d	0,002
			Worker – long-term – systemic Combined routes		0,048
PROC15, CS36	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	46,72 mg/m3	0,023
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,023

PROC10: Roller application or brushing CS47: Cleaning

PROC15: Use as laboratory reagent CS36: Laboratory activities

# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

#### 1. Short title of Exposure Scenario: **Distribution**

Main User Groups Sector of use Process category	<ul> <li>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU3: Industrial Manufacturing (all)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at</li> </ul>
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	non-dedicated facilities <b>PROC8b:</b> Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities <b>PROC9:</b> Transfer of substance or preparation into small containers (dedicated filling line, including weighing) <b>PROC4:</b> Here a laboratory preparation
	PROC15: Use as laboratory reagent
Environmental release category	: ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7: Manufacture of substances, Formulation of preparations, Formulation in materials, Industrial use of processing aids in processes and products, not becoming par of articles, Industrial use resulting in inclusion into or onto a matrix, Industrial use resulting in manufacture of another substance (use of intermediates), Industrial use of reactive processing aids, Industrial use of monomers for manufacture of thermoplastics, Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers, Industrial use of substances in closed systems
Further information	
	Bulk loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading, maintenance and associated laboratory activities. Excludes emissions during transport.
ERC4, ERC5, ERC6a, ERC6b, ER	olling environmental exposure for:ERC1, ERC2, ERC3, RC6c, ERC6d, ERC7: Manufacture of substances, rmulation in materials. Industrial use of processing aids
ERC4, ERC5, ERC6a, ERC6b, ER Formulation of preparations, For in processes and products, not inclusion into or onto a matrix, I substance (use of intermediates use of monomers for manufactur regulators for polymerisation prindustrial use of substances in or Maximum allowable site tonnage (MSafe) based on release following total wastewater	RC6c, ERC6d, ERC7: Manufacture of substances, rmulation in materials, Industrial use of processing aids becoming part of articles, Industrial use resulting in ndustrial use resulting in manufacture of another b), Industrial use of reactive processing aids, Industrial are of thermoplastics, Industrial use of process ocesses in production of resins, rubbers, polymers, closed systems
ERC4, ERC5, ERC6a, ERC6b, ER Formulation of preparations, For n processes and products, not nclusion into or onto a matrix, I substance (use of intermediates use of monomers for manufactur regulators for polymerisation pr ndustrial use of substances in o Maximum allowable site tonnage (MSafe) based on release	RC6c, ERC6d, ERC7: Manufacture of substances, rmulation in materials, Industrial use of processing aids becoming part of articles, Industrial use resulting in ndustrial use resulting in manufacture of another b), Industrial use of reactive processing aids, Industrial are of thermoplastics, Industrial use of process ocesses in production of resins, rubbers, polymers, closed systems
ERC4, ERC5, ERC6a, ERC6b, ER Formulation of preparations, For n processes and products, not in nclusion into or onto a matrix, I substance (use of intermediates use of monomers for manufactur regulators for polymerisation prindustrial use of substances in of Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe)	<ul> <li>RC6c, ERC6d, ERC7: Manufacture of substances, rmulation in materials, Industrial use of processing aids becoming part of articles, Industrial use resulting in ndustrial use resulting in manufacture of another b), Industrial use of reactive processing aids, Industrial ire of thermoplastics, Industrial use of process ocesses in production of resins, rubbers, polymers, closed systems</li> <li>97.000</li> </ul>
ERC4, ERC5, ERC6a, ERC6b, ER Formulation of preparations, For in processes and products, not in nclusion into or onto a matrix, I substance (use of intermediates use of monomers for manufactur egulators for polymerisation prindustrial use of substances in of Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe)	<ul> <li>RC6c, ERC6d, ERC7: Manufacture of substances, rmulation in materials, Industrial use of processing aids becoming part of articles, Industrial use resulting in ndustrial use resulting in manufacture of another</li> <li>b), Industrial use of reactive processing aids, Industrial ire of thermoplastics, Industrial use of process ocesses in production of resins, rubbers, polymers, closed systems</li> <li>97.000</li> </ul>
ERC4, ERC5, ERC6a, ERC6b, ER Formulation of preparations, For n processes and products, not in nclusion into or onto a matrix, I substance (use of intermediates use of monomers for manufacture regulators for polymerisation prindustrial use of substances in of Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe)	<ul> <li>RC6c, ERC6d, ERC7: Manufacture of substances, rmulation in materials, Industrial use of processing aids becoming part of articles, Industrial use resulting in ndustrial use resulting in manufacture of another b), Industrial use of reactive processing aids, Industrial ire of thermoplastics, Industrial use of process ocesses in production of resins, rubbers, polymers, closed systems</li> <li>97.000</li> </ul>
ERC4, ERC5, ERC6a, ERC6b, ER Formulation of preparations, For in processes and products, not in nclusion into or onto a matrix, I substance (use of intermediates use of monomers for manufacture egulators for polymerisation prindustrial use of substances in of Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas)	<ul> <li>RC6c, ERC6d, ERC7: Manufacture of substances, rmulation in materials, Industrial use of processing aids becoming part of articles, Industrial use resulting in ndustrial use resulting in manufacture of another s), Industrial use of reactive processing aids, Industrial use of thermoplastics, Industrial use of process ocesses in production of resins, rubbers, polymers, closed systems</li> <li>97.000</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> <li>100</li> </ul> </li> </ul>
ERC4, ERC5, ERC6a, ERC6b, ER Formulation of preparations, For in processes and products, not in nclusion into or onto a matrix, I substance (use of intermediates use of monomers for manufacture egulators for polymerisation prindustrial use of substances in of Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions Continuous use/release	<ul> <li>RC6c, ERC6d, ERC7: Manufacture of substances, rmulation in materials, Industrial use of processing aids becoming part of articles, Industrial use resulting in ndustrial use resulting in manufacture of another</li> <li>b), Industrial use of reactive processing aids, Industrial are of thermoplastics, Industrial use of process ocesses in production of resins, rubbers, polymers, closed systems</li> <li>97.000</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> <li>100</li> </ul> </li> <li>affecting environmental exposure</li> </ul>
ERC4, ERC5, ERC6a, ERC6b, ER Formulation of preparations, For in processes and products, not in nclusion into or onto a matrix, I substance (use of intermediates use of monomers for manufacture egulators for polymerisation prindustrial use of substances in of Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions Continuous use/release Number of emission days per year	<ul> <li>RC6c, ERC6d, ERC7: Manufacture of substances, rmulation in materials, Industrial use of processing aids becoming part of articles, Industrial use resulting in ndustrial use resulting in manufacture of another s), Industrial use of reactive processing aids, Industrial re of thermoplastics, Industrial use of process ocesses in production of resins, rubbers, polymers, closed systems</li> <li>97.000</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> <li>100</li> </ul> </li> <li>affecting environmental exposure <ul> <li>20</li> </ul> </li> </ul>
ERC4, ERC5, ERC6a, ERC6b, ER Formulation of preparations, For in processes and products, not in nclusion into or onto a matrix, I substance (use of intermediates use of monomers for manufacture egulators for polymerisation prindustrial use of substances in of Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions Continuous use/release	<ul> <li>RC6c, ERC6d, ERC7: Manufacture of substances, rmulation in materials, Industrial use of processing aids becoming part of articles, Industrial use resulting in ndustrial use resulting in manufacture of another</li> <li>b), Industrial use of reactive processing aids, Industrial use of thermoplastics, Industrial use of process ocesses in production of resins, rubbers, polymers, closed systems</li> <li>97.000</li> <li>by risk management <ul> <li>18.000 m3/d</li> <li>10</li> <li>100</li> </ul> </li> <li>affecting environmental exposure</li> <li>20</li> <li>0,1 %</li> </ul>

TrusTec <sup>™</sup> PRF Octane No Version 1.13 Technical conditions and measures Water Remarks Remarks Remarks	Revision Date 2022-11-1
<b>Fechnical conditions and measures</b> Water Remarks Remarks	<ul> <li>/ Organizational measures</li> <li>If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%): (Effectiveness: 0 %)</li> <li>Risk from environmental exposure is driven by freshwater.</li> </ul>
Water Remarks Remarks	<ul> <li>If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%): (Effectiveness: 0 %)</li> <li>Risk from environmental exposure is driven by freshwater.</li> </ul>
Remarks	
Remarks	process release estimates used.
Air	<ul> <li>No wastewater treatment required.</li> <li>Treat air emission to provide the required removal efficiency of</li> </ul>
Water	<ul> <li>(%): (Effectiveness: 90 %)</li> <li>Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%):</li> <li>(Effectiveness: 0 %)</li> </ul>
Conditions and measures related to Type of Sewage Treatment Plant Flow rate of sewage treatment plant effluent	<ul> <li>municipal sewage treatment plant</li> <li>Municipal sewage treatment plant</li> <li>2.000 m3/d</li> </ul>
Effectiveness (of a measure) Percentage removed from waste	: 96,3 % : 96,3 %
water Sludge Treatment Procedures to limit air emissions from Sewage Treatment Plant	<ul><li>No data available</li><li>No data available</li></ul>
Conditions and measures related to Remarks Conditions and measures related to	<ul> <li>external treatment of waste for disposal</li> <li>External treatment and disposal of waste should comply with applicable local and/or national regulations.</li> </ul>
Recovery Methods	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
2.2 Contributing scenario contro process, no likelihood of exposu	Iling worker exposure for: PROC1: Use in closed re
Product characteristics Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
<b>Other operational conditions affecti</b> Remarks	<ul> <li>ng workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
<b>Fechnical conditions and measures</b> Handle substance within a closed system Transfer via enclosed lines.	
Avoid direct skin contact with product (tested to EN374) if hand contact with	/limit releases, dispersion and exposure t. Identify potential areas for indirect skin contact. Wear gloves h substance likely. Clean up contamination/spills as soon as they on immediately. Provide basic employee training to prevent /
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minimise exposures and to report any skin problems that may develop.

minimise exposures and to report a	any skin problems that may develop.
2.2 Contributing scenario cont continuous process with occas	rolling worker exposure for: PROC2: Use in closed, sional controlled exposure
<b>Product characteristics</b> Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affeo Remarks	<ul> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Technical conditions and measure Store substance within a closed sy	<b>es</b> /stem., Transfer via enclosed lines.
2.2 Contributing scenario cont Use in closed batch process (s	any skin problems that may develop. rolling worker exposure for: PROC3, PROC9, PROC15: synthesis or formulation), Transfer of substance or ers (dedicated filling line, including weighing), Use as
Product characteristics Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affeo Remarks	<ul> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Avoid direct skin contact with product (tested to EN374) if hand contact v	ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent /

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minimise exposures and to report any skin problems that may develop., No specific measures identified.

2.2 Contributing scenario controlling worker exposure for: PROC4, PROC8b: Use in batch and other process (synthesis) where opportunity for exposure arises, Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities Product characteristics Physical Form (at time of use) : Liquid substance : 2,8 kPa Vapor pressure Amount used Remarks : No limit Frequency and duration of use Remarks : Covers daily exposures up to 8 hours (unless stated differently) Other operational conditions affecting workers exposure Assumes use at not more than 20°C above ambient Remarks temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented. Organizational measures to prevent /limit releases, dispersion and exposure Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Conditions and measures related to personal protection, hygiene and health evaluation Wear suitable gloves tested to EN374. 2.2 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities **Product characteristics** Physical Form (at time of use) : Liquid substance : 2.8 kPa Vapor pressure Amount used Remarks : No limit Frequency and duration of use Remarks : Covers daily exposures up to 8 hours (unless stated differently) Other operational conditions affecting workers exposure Remarks : Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented. Organizational measures to prevent /limit releases, dispersion and exposure Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / SDS Number:100000014260 60/139

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minimise exposures and to report any skin problems that may develop., Apply vessel entry procedures including use of forced supplied air.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374., Wear suitable coveralls to prevent exposure to the skin., Wear rubber boots.

#### 3. Exposure estimation and reference to its source

#### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7	Hydrocarbon Block Method with Petrorisk		Air		74 ng/m3	
			Fresh water		5,1 ng/L	0,00013
			Fresh water sediment		0,000075 mg/kg	0,000054
			Marine water		0,019 ng/L	< 0,000044
			Marine sediment		0,26 ng/kg	< 0,00002
			Agricultural soil		1,2 ng/kg	< 0,000034

#### ERC1: Manufacture of substances

ERC2: Formulation of preparations

ERC3: Formulation in materials

ERC4: Industrial use of processing aids in processes and products, not becoming part of articles ERC5: Industrial use resulting in inclusion into or onto a matrix

ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)

ERC6b: Industrial use of reactive processing aids

ERC6c: Industrial use of monomers for manufacture of thermoplastics

ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

ERC7: Industrial use of substances in closed systems

#### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC1, CS15, CS67	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	0,05 mg/m3	0,000
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,000
PROC2, CS15, CS67	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	46,72 mg/m3	0,023
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,002
			Worker – long-term – systemic Combined routes		0,025
PROC3, CS15, CS2	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	116,79 mg/m3	0,057
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,058
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PROC9, CS6	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/kg/d	0,115
		Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,009
		Worker – long-term – systemic Combined routes		0,124
PROC15, CS36	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	46,72 mg/kg/d	0,023
		Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
		Worker – long-term – systemic Combined routes		0,023
PROC4, CS16	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	93,43 mg/m3	0,046
		Worker – dermal, long- term – systemic	1,372 mg/kg/d	0,002
		Worker – long-term – systemic Combined routes		0,048
PROC8b, CS14, CS107, CS108	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
	meaned	Worker – dermal, long- term – systemic	1,372 mg/kg/d	0,002
		Worker – long-term – systemic Combined routes		0,117
PROC8a, CS39	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
	Modified	Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
		Worker – long-term – systemic Combined routes		0,118
CS15: Gener CS67: Storag PROC3: Use CS15: Gener CS2: Proces PROC9: Tran weighing) CS6: Drum a PROC15: Us CS36: Labor PROC4: Use	ral exposures (close ge in closed batch pro- ral exposures (close s sampling insfer of substance of and small package f se as laboratory rea atory activities	cess (synthesis or formulation) d systems) r preparation into small containers ling lent process (synthesis) where opportu	s (dedicated filling	
containers at CS14: Bulk tr CS107: (clos CS108: (ope	dedicated facilities ransfers ed systems) n systems)	or preparation (charging/ discharg		
at non-dedica CS39: Equip	ated facilities ment cleaning and			eis/large containers
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#### 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). 1. Short title of Exposure Scenario: Use in coatings - industrial : **SU 3:** Industrial uses: Uses of substances as such or in Main User Groups preparations at industrial sites Sector of use **SU3:** Industrial Manufacturing (all) Process category **PROC1:** Use in closed process, no likelihood of exposure **PROC2:** Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) **PROC4:** Use in batch and other process (synthesis) where opportunity for exposure arises **PROC5:** Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) PROC7: Industrial spraying **PROC8a:** Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities **PROC8b:** Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletization PROC15: Use as laboratory reagent : ERC4: Industrial use of processing aids in processes and Environmental release category products, not becoming part of articles Further information Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, SDS Number:100000014260 63/139

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	application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.
	Iling environmental exposure for:ERC4: Industrial use of d products, not becoming part of articles
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe)	: 260.000
Environment factors not influenced	
Flow rate	: 18.000 m3/d
Dilution Factor (River)	: 10
Dilution Factor (Coastal Areas)	: 100
Other given operational conditions	affecting environmental exposure
Continuous use/release	22
Number of emission days per year	
Emission or Release Factor: Air	
Emission or Release Factor: Water	
Emission or Release Factor: Soil	: 0%
Technical conditions and measures	/ Organizational measures
Air	: Treat air emission to provide the required removal efficiency of
	(%): (Effectiveness: 90 %)
Water	<ul> <li>Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%):</li> </ul>
Water	<ul> <li>(Effectiveness: 4,3 %)</li> <li>If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%):</li> <li>(Effectiveness: 0 %)</li> </ul>
Remarks	<ul> <li>Common practices vary across sites thus conservative process release estimates used.</li> </ul>
Remarks	: Prevent discharge of undissolved substance to or recover from onsite wastewater.
Remarks	: Risk from environmental exposure is driven by freshwater sediment.
Remarks	: If discharging to domestic sewage treatment plant, no onsite wastewater treatment required.
Remarks	: Do not apply industrial sludge to natural soils.
Remarks	: Sludge should be incinerated, contained or reclaimed.
Conditions and measures related to	municipal sewage treatment plant
	: Municipal sewage treatment plant
Type of Sewage Treatment Plant	: 2.000 m3/d
Flow rate of sewage treatment	. 2.000 mo/u
plant effluent	. 06.2.9/
Effectiveness (of a measure) Percentage removed from waste	: 96,3 % : 96,3 %
•	. 50,570
water Sludgo Trootmont	· No data available
Sludge Treatment	: No data available
Procedures to limit air emissions	: No data available
from Sewage Treatment Plant	
Conditions and measures related to	external treatment of waste for disposal
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Remarks	: External treatment and disposal of waste should comply with
Conditions and measures related	applicable local and/or national regulations.
Recovery Methods	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
in closed process, no likelihoo	rolling worker exposure for: PROC1, PROC2, PROC3: Use d of exposure, Use in closed, continuous process with e, Use in closed batch process (synthesis or formulation)
Product characteristics	
Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affe	cting workers exposure
Remarks	<ul> <li>Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.</li> </ul>
	es
Avoid direct skin contact with prod (tested to EN374) if hand contact v occur. Wash off any skin contamin	system. Int /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent /
Handle substance within a closed Organizational measures to preve Avoid direct skin contact with prod (tested to EN374) if hand contact v occur. Wash off any skin contamin minimise exposures and to report 2.2 Contributing scenario cont Use in batch and other proces Transfer of substance or prepa	system. ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop. rolling worker exposure for: PROC4, PROC9, PROC15: s (synthesis) where opportunity for exposure arises, aration into small containers (dedicated filling line,
Handle substance within a closed Organizational measures to preve Avoid direct skin contact with prod (tested to EN374) if hand contact v occur. Wash off any skin contamin minimise exposures and to report a 2.2 Contributing scenario cont Use in batch and other proces Transfer of substance or prepa including weighing), Use as lat	system. ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop. rolling worker exposure for: PROC4, PROC9, PROC15: s (synthesis) where opportunity for exposure arises, aration into small containers (dedicated filling line,
Handle substance within a closed Organizational measures to preve Avoid direct skin contact with prod (tested to EN374) if hand contact wo occur. Wash off any skin contamin minimise exposures and to report a 2.2 Contributing scenario cont Use in batch and other proces Transfer of substance or prepa including weighing), Use as lat	system. ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop. rolling worker exposure for: PROC4, PROC9, PROC15: s (synthesis) where opportunity for exposure arises, aration into small containers (dedicated filling line,
Handle substance within a closed Organizational measures to preve Avoid direct skin contact with prod (tested to EN374) if hand contact wo occur. Wash off any skin contamin minimise exposures and to report a 2.2 Contributing scenario cont Use in batch and other proces Transfer of substance or prepa including weighing), Use as lat Product characteristics Physical Form (at time of use) Vapor pressure	system. <b>Int /limit releases, dispersion and exposure</b> uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop. <b>Folling worker exposure for: PROC4, PROC9, PROC15:</b> <b>s (synthesis) where opportunity for exposure arises,</b> <b>aration into small containers (dedicated filling line,</b> <b>boratory reagent</b> : Liquid substance
Handle substance within a closed Organizational measures to preve Avoid direct skin contact with prod (tested to EN374) if hand contact wo occur. Wash off any skin contamin minimise exposures and to report a 2.2 Contributing scenario cont Use in batch and other proces Transfer of substance or prepa including weighing), Use as lat Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks	system. <b>Int /limit releases, dispersion and exposure</b> uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop. <b>rolling worker exposure for: PROC4, PROC9, PROC15:</b> <b>s (synthesis) where opportunity for exposure arises,</b> <b>aration into small containers (dedicated filling line,</b> <b>boratory reagent</b> : Liquid substance : 2,8 kPa
Handle substance within a closed Organizational measures to preve Avoid direct skin contact with prod (tested to EN374) if hand contact wo occur. Wash off any skin contamin minimise exposures and to report a 2.2 Contributing scenario cont Use in batch and other proces Transfer of substance or prepa including weighing), Use as lat Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks	system. <b>Int /limit releases, dispersion and exposure</b> uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop. <b>rolling worker exposure for: PROC4, PROC9, PROC15:</b> <b>s (synthesis) where opportunity for exposure arises,</b> <b>aration into small containers (dedicated filling line,</b> <b>boratory reagent</b> : Liquid substance : 2,8 kPa
Handle substance within a closed Organizational measures to preve Avoid direct skin contact with prod (tested to EN374) if hand contact we occur. Wash off any skin contamin minimise exposures and to report a 2.2 Contributing scenario cont Use in batch and other proces Transfer of substance or prepa including weighing), Use as lat Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use	system. Int /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop. rolling worker exposure for: PROC4, PROC9, PROC15: a (synthesis) where opportunity for exposure arises, aration into small containers (dedicated filling line, boratory reagent : Liquid substance : 2,8 kPa : No limit : Covers daily exposures up to 8 hours (unless stated differently)
Handle substance within a closed Organizational measures to preve Avoid direct skin contact with prod (tested to EN374) if hand contact wo occur. Wash off any skin contamin minimise exposures and to report a 2.2 Contributing scenario cont Use in batch and other proces Transfer of substance or prepa including weighing), Use as lat Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use Remarks Other operational conditions affer Remarks	system. Int /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop. rolling worker exposure for: PROC4, PROC9, PROC15: <b>s</b> (synthesis) where opportunity for exposure arises, aration into small containers (dedicated filling line, boratory reagent : Liquid substance : 2,8 kPa : No limit : Covers daily exposures up to 8 hours (unless stated differently) cting workers exposure : Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic

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(tested to EN374) if hand contact wi occur. Wash off any skin contamina	ct. Identify potential areas for indirect skin contact. Wear gloves th substance likely. Clean up contamination/spills as soon as they tion immediately. Provide basic employee training to prevent / ny skin problems that may develop., No specific measures identified.
Mixing or blending in batch pro (multistage and/ or significant c	olling worker exposure for: PROC5, PROC10, PROC14: cesses for formulation of preparations and articles contact), Roller application or brushing, Production of etting, compression, extrusion, pelletization
Product characteristics	
Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>ing workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Avoid direct skin contact with produc (tested to EN374) if hand contact wi occur. Wash off any skin contamina minimise exposures and to report ar	o personal protection, hygiene and health evaluation
2.2 Contributing scenario contro	olling worker exposure for: PROC7: Industrial spraying
Product characteristics Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>ing workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Technical conditions and measures Carry out in a vented booth provided mechanical means.	<b>s</b> d with laminar airflow., Provide enhanced general ventilation by
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#### Organizational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

# 2.2 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

<b>Product characteristics</b> Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other energianal conditions offect	
Other operational conditions affect Remarks	<ul> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Technical conditions and measures Clear transfer lines prior to de-coupl	
Avoid direct skin contact with produc (tested to EN374) if hand contact wir occur. Wash off any skin contaminat minimise exposures and to report ar	o personal protection, hygiene and health evaluation
	olling worker exposure for: PROC8b: Transfer of jing/ discharging) from/ to vessels/ large containers at
<b>Product characteristics</b> Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
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Other operation Remarks	onal conditions af	: Assutemp	umes use at not	stated differ	ently., Assum	nes a good basic
	<b>ditions and meas</b> lines prior to de-c					
Avoid direct s (tested to EN occur. Wash	I measures to pre kin contact with pr 374) if hand contac off any skin contan osures and to repo	oduct. Identify ct with substai nination imme	/ potential areas nce likely. Clean ediately. Provide	for indirect s up contami basic emplo	skin contact. nation/spills a	as soon as they
	ing scenario co pping and pour		orker exposure	e for: PRO	C13: Treatr	ment of
Product chara	cteristics					
	m (at time of use)	: Liqu	id substance			
Vapor press	lre	: 2,8 k	kPa			
Amount used						
Remarks		: No li	imit			
Frequency and Remarks	d duration of use	: Cove	ers daily exposu	res up to 8 h	nours (unless	stated
		diffe	rently)			
Other operatic Remarks	onal conditions af	: Assutemp	umes use at not	stated differ	ently., Assum	nes a good basic
Avoid direct s (tested to EN: occur. Wash minimise exp work pieces.	I measures to pre kin contact with pr 374) if hand contact off any skin contan osures and to repo d measures related	oduct. Identify ct with substan nination imme ort any skin pro ed to persona	/ potential areas nce likely. Clean ediately. Provide oblems that may	for indirects up contamine basic emplo develop., A	skin contact. nation/spills a yee training t void manual	as soon as they to prevent / contact with wet
AA7	e gloves tested to E	EN374.				
vvear suitable						
	estimation and	reference to	its source			
3. Exposure	estimation and	reference to	o its source			
	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
3. Exposure	Exposure Assessment	Specific		Value type		characterization
3. Exposure Environment Contributing Scenario	Exposure Assessment Method Hydrocarbon Block Method with	Specific	Compartment Air Fresh water	Value type	Exposure 0,015 mg/m3 0,0013 mg/L	characterization ratio (PEC/PNEC): 0,034
3. Exposure Environment Contributing Scenario	Exposure Assessment Method Hydrocarbon Block Method with	Specific	Compartment	Value type	Exposure 0,015 mg/m3	characterization ratio (PEC/PNEC):

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PROC10, CS98

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ECETOC TRA

Modified

SAFETY DATA SHEET

0,115

0,007

0,122

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			Marine sediment	0,0056 mg/k	g 0,0039
			Agricultural soil	0,14 µg/kg	
ERC4: Indust Workers/Cons	·	ing aids in pro	ocesses and products	, not becoming pa	art of articles
Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC1, CS15	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	0,05 mg/m3	0,000
			Worker – dermal, long- term – systemic Worker – long-term –	0,34 mg/kg/d	0,000
<b>DD000</b> 0045			systemic Combined routes	40.70 / 0	0.000
PROC2, CS15, CS56, CS38	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	46,72 mg/m3	0,023
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,002
			Worker – long-term – systemic Combined routes		0,025
PROC2, CS94	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,002
			Worker – long-term – systemic Combined routes		0,117
PROC3, CS29, CS15	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	116,79 mg/m3	0,057
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,058
PROC4, CS95	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	93,43 mg/m3	0,046
			Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,009
			Worker – long-term – systemic Combined routes		0,055
PROC9, CS3, CS8, CS22	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
			Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,009
			Worker – long-term – systemic Combined routes		0,124
PROC15, CS36	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	46,72 mg/m3	0,023
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,023
PROC5, CS96, CS30	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
			Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,118

Worker - inhalation,

long-term – systemic Worker – dermal, long-

term – systemic Worker – long-term – 233,58 mg/m3

5,486 mg/kg/d

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		systemic Combined routes		
PROC14, CS100	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
		Worker – dermal, long- term – systemic	0,686 mg/kg/d	0,001
		Worker – long-term – systemic Combined routes		0,116
PROC7, CS97	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	58,39 mg/m3	0,029
		Worker – dermal, long- term – systemic	2,143 mg/kg/d	0,003
		Worker – long-term – systemic Combined routes		0,031
PROC7, CS34, CS10	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	350,37 mg/m3	0,172
		Worker – dermal, long- term – systemic	4,286 mg/kg/d	0,006
		Worker – long-term – systemic Combined routes		0,178
PROC8a, CS3	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
	Modified	Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
		Worker – long-term – systemic Combined routes		0,118
PROC8b, CS3	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
Wouncu		Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,009
		Worker – long-term – systemic Combined routes		0,124
PROC13, CS4	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
		Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
		Worker – long-term – systemic Combined routes		0,118
CS15: Gener PROC2: Use CS15: Gener CS56: with sa CS38: Use in	al exposures (closed, continual exposures (closed, continual exposures (closed) ample collection contained system	ous process with occasional control ed systems) Is		
		ous process with occasional control ying (50 - 100°C). Stoving (>100°C).		curing
CS29: Mixing	in closed batch p operations (close al exposures (close			
	in batch and othe ormation - air dryir	r process (synthesis) where opportu g	nity for exposure a	arises
weighing) CS3: Materia CS8: Drum/b		or preparation into small containers	(dedicated filling I	line, including

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PROC15: Use as laboratory reagent CS36: Laboratory activities

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) CS96: Preparation of material for application CS30: Mixing operations (open systems)

PROC10: Roller application or brushing CS98: Roller, spreader, flow application

PROC14: Production of preparations or articles by tabletting, compression, extrusion, pelletization CS100: Production or preparation or articles by tabletting, compression, extrusion or pelletization

PROC7: Industrial spraying CS97: Spraying (automatic/robotic)

PROC7: Industrial spraying CS34: Manual CS10: Spraying

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS3: Material transfers

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS3: Material transfers

PROC13: Treatment of articles by dipping and pouring CS4: Dipping, immersion and pouring

# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.Guidance is based on assumed

operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

1. Short title of Exposure Scenario: Use in coatings – professional	
Main User Groups	: <b>SU 22:</b> Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Sector of use	: SU 22: Professional uses: Public domain (administration,
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Process category	<ul> <li>education, entertainment, services, craftsmen)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact)</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>PROC10: Roller application or brushing</li> <li>PROC11: Non industrial spraying</li> <li>PROC13: Treatment of articles by dipping and pouring</li> <li>PROC19: Hand-mixing with intimate contact and only PPE available</li> </ul>
Environmental release category	: <b>ERC8a, ERC8d:</b> Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
Further information	
	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.
	olling environmental exposure for:ERC8a, ERC8d: Wide sing aids in open systems, Wide dispersive outdoor use ems : 1.000
Environment factors not influenced	
Flow rate	: 18.000 m3/d
Dilution Lootor (Divor)	: 10
Dilution Factor (River) Dilution Factor (Coastal Areas)	: 100
Dilution Factor (Coastal Areas)	affecting environmental exposure : 365 : 98 %
Dilution Factor (Coastal Areas) <b>Other given operational conditions a</b> Continuous use/release Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil	affecting environmental exposure : 365 : 98 % : 1 % : 1 % : 7 Organizational measures
Dilution Factor (Coastal Areas) Other given operational conditions a Continuous use/release Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil	affecting environmental exposure : 365 : 98 % : 1 % : 1 %

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	provide the required removal efficiency of $\geq$ (%):
	(Effectiveness: 0 %)
Water	: If discharging to domestic sewage treatment plant, provide the
	required onsite wastewater removal efficiency of $\geq$ (%):
Remarks	(Effectiveness: 0 %) : No wastewater treatment required.
Remarks	: Common practices vary across sites thus conservative
Remarks	process release estimates used.
Remarks	: Risk from environmental exposure is driven by freshwater.
Air	: Treat air emission to provide a typical removal efficiency of
	(%):
Remarks	: Not applicable
Conditions and measures related t	o municipal sewage treatment plant
	: Municipal sewage treatment plant
Flow rate of sewage treatment	: 2.000 m3/d
plant effluent	
Effectiveness (of a measure)	: 96,3 %
Percentage removed from waste	: 96,3 %
water	
Sludge Treatment	: No data available
Procedures to limit air emissions	: No data available
from Sewage Treatment Plant	
Conditions and measures related t	o external treatment of waste for disposal
Remarks	: External treatment and disposal of waste should comply with
	applicable local and/or national regulations.
Conditions and measures related t	
Decey on Mathede	
Recovery Methods	: External recovery and recycling of waste should comply with
Recovery Methods	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
	applicable local and/or national regulations.
2.2 Contributing scenario contr	applicable local and/or national regulations. olling worker exposure for: PROC1, PROC2: Use in
2.2 Contributing scenario contr closed process, no likelihood o	applicable local and/or national regulations. olling worker exposure for: PROC1, PROC2: Use in f exposure, Use in closed, continuous process with
2.2 Contributing scenario contr closed process, no likelihood o	applicable local and/or national regulations. olling worker exposure for: PROC1, PROC2: Use in f exposure, Use in closed, continuous process with
2.2 Contributing scenario contr closed process, no likelihood o occasional controlled exposure Product characteristics	applicable local and/or national regulations. olling worker exposure for: PROC1, PROC2: Use in of exposure, Use in closed, continuous process with
2.2 Contributing scenario contr closed process, no likelihood o occasional controlled exposure Product characteristics Physical Form (at time of use)	applicable local and/or national regulations. olling worker exposure for: PROC1, PROC2: Use in of exposure, Use in closed, continuous process with : Liquid substance
2.2 Contributing scenario contr closed process, no likelihood o occasional controlled exposure Product characteristics	applicable local and/or national regulations. olling worker exposure for: PROC1, PROC2: Use in of exposure, Use in closed, continuous process with
2.2 Contributing scenario contr closed process, no likelihood o occasional controlled exposure Product characteristics Physical Form (at time of use) Vapor pressure	applicable local and/or national regulations. olling worker exposure for: PROC1, PROC2: Use in of exposure, Use in closed, continuous process with : Liquid substance
2.2 Contributing scenario contr closed process, no likelihood o occasional controlled exposure Product characteristics Physical Form (at time of use) Vapor pressure	applicable local and/or national regulations. olling worker exposure for: PROC1, PROC2: Use in of exposure, Use in closed, continuous process with : Liquid substance
2.2 Contributing scenario contr closed process, no likelihood o occasional controlled exposure Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks	applicable local and/or national regulations. olling worker exposure for: PROC1, PROC2: Use in f exposure, Use in closed, continuous process with : Liquid substance : 2,8 kPa
2.2 Contributing scenario contr closed process, no likelihood o occasional controlled exposure Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in f exposure, Use in closed, continuous process with</li> <li>Liquid substance</li> <li>2,8 kPa</li> <li>No limit</li> </ul>
2.2 Contributing scenario contr closed process, no likelihood o occasional controlled exposure Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in of exposure, Use in closed, continuous process with</li> <li>Liquid substance</li> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated</li> </ul>
2.2 Contributing scenario contr closed process, no likelihood o occasional controlled exposure Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in f exposure, Use in closed, continuous process with</li> <li>Liquid substance</li> <li>2,8 kPa</li> <li>No limit</li> </ul>
2.2 Contributing scenario contr closed process, no likelihood o occasional controlled exposure Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use Remarks	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in fexposure, Use in closed, continuous process with</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> <li>: No limit</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> </ul>
2.2 Contributing scenario contr closed process, no likelihood o occasional controlled exposure Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use Remarks	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in fexposure, Use in closed, continuous process with</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> <li>: No limit</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> </ul>
2.2 Contributing scenario contr closed process, no likelihood o occasional controlled exposure Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use Remarks Other operational conditions affect	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in of exposure, Use in closed, continuous process with</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> <li>: No limit</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure</li> </ul>
<ul> <li>2.2 Contributing scenario contrictored process, no likelihood of occasional controlled exposure</li> <li>Product characteristics         <ul> <li>Physical Form (at time of use)</li> <li>Vapor pressure</li> </ul> </li> <li>Amount used         <ul> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use             <ul> <li>Remarks</li> </ul> </li> <li>Other operational conditions affect</li> </ul>	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in of exposure, Use in closed, continuous process with</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> <li>: No limit</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure</li> <li>: Assumes use at not more than 20°C above ambient</li> </ul>
<ul> <li>2.2 Contributing scenario controlled exposure closed process, no likelihood of occasional controlled exposure</li> <li>Product characteristics     Physical Form (at time of use) Vapor pressure </li> <li>Amount used     Remarks </li> <li>Frequency and duration of use     Remarks </li> <li>Other operational conditions affect     Remarks </li> <li>Other operational conditions affect     Remarks </li> </ul>	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in f exposure, Use in closed, continuous process with</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> <li>: No limit</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure</li> <li>: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
<ul> <li>2.2 Contributing scenario controlled exposure</li> <li>2.2 Contributing scenario controlled exposure</li> <li>2.3 Controlled exposure</li> <li>2.4 Product characteristics     <ul> <li>Physical Form (at time of use)</li> <li>Vapor pressure</li> </ul> </li> <li>2.4 Amount used     <ul> <li>Remarks</li> </ul> </li> <li>2.5 Prequency and duration of use     <ul> <li>Remarks</li> </ul> </li> <li>2.6 Other operational conditions affect     <ul> <li>Remarks</li> </ul> </li> <li>2.6 Dthe conditions and measure     <ul> <li>Handle substance within a closed s</li> </ul> </li> </ul>	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in feedback of the second state of t</li></ul>
<ul> <li>2.2 Contributing scenario controlled exposure</li> <li>2.2 Contributing scenario controlled operational controlled exposure</li> <li>Product characteristics         <ul> <li>Physical Form (at time of use)</li> <li>Vapor pressure</li> </ul> </li> <li>Amount used         <ul> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use             <ul> <li>Remarks</li> </ul> </li> <li>Other operational conditions affect             <ul> <li>Remarks</li> </ul> </li> <li>Technical conditions and measure         <ul> <li>Handle substance within a closed s</li> <li>Organizational measures to preventional measures to preventional measures to preventional measures</li> </ul> </li></ul>	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in of exposure, Use in closed, continuous process with</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> <li>: No limit</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure</li> <li>: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> <li>:s ystem.</li> <li>ht /limit releases, dispersion and exposure</li> </ul>
<ul> <li>2.2 Contributing scenario controlled process, no likelihood of occasional controlled exposure</li> <li>Product characteristics <ul> <li>Physical Form (at time of use)</li> <li>Vapor pressure</li> </ul> </li> <li>Amount used <ul> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Remarks</li> </ul> <li>Other operational conditions affect Remarks</li> <li>Technical conditions and measure Handle substance within a closed s</li> <li>Organizational measures to prever Avoid direct skin contact with produced to the produced of the p</li>	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in f exposure, Use in closed, continuous process with</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> <li>: No limit</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure</li> <li>: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> <li>*s ystem.</li> <li>t/limit releases, dispersion and exposure</li> <li>ct. Identify potential areas for indirect skin contact. Wear gloves</li> </ul>
<ul> <li>2.2 Contributing scenario contriclosed process, no likelihood of occasional controlled exposure</li> <li>Product characteristics <ul> <li>Physical Form (at time of use)</li> <li>Vapor pressure</li> </ul> </li> <li>Amount used <ul> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use Remarks</li> </ul> <li>Other operational conditions affect Remarks</li> <li>Technical conditions and measure Handle substance within a closed s</li> <li>Organizational measures to prever Avoid direct skin contact with produ (tested to EN374) if hand contact w</li>	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in f exposure, Use in closed, continuous process with</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> <li>: No limit</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure</li> <li>: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> <li>*s ystem.</li> <li>t/limit releases, dispersion and exposure</li> <li>ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they</li> </ul>
<ul> <li>2.2 Contributing scenario contrictiosed process, no likelihood of occasional controlled exposure</li> <li>Product characteristics     Physical Form (at time of use)     Vapor pressure</li> <li>Amount used     Remarks</li> <li>Frequency and duration of use     Remarks</li> <li>Other operational conditions affect     Remarks</li> <li>Descriptional conditions affect     Remarks</li> <li>Technical conditions and measure     Handle substance within a closed s</li> <li>Organizational measures to prever     Avoid direct skin contact with produ     (tested to EN374) if hand contact w     occur. Wash off any skin contamina</li> </ul>	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in f exposure, Use in closed, continuous process with</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> <li>: No limit</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure</li> <li>: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> <li>:s ystem.</li> <li>nt /limit releases, dispersion and exposure</li> <li>ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they attion immediately. Provide basic employee training to prevent /</li> </ul>
<ul> <li>2.2 Contributing scenario contrictiosed process, no likelihood of occasional controlled exposure</li> <li>Product characteristics     Physical Form (at time of use)     Vapor pressure</li> <li>Amount used     Remarks</li> <li>Frequency and duration of use     Remarks</li> <li>Other operational conditions affect     Remarks</li> <li>Descriptional conditions affect     Remarks</li> <li>Frechnical conditions and measure     Handle substance within a closed s</li> <li>Organizational measures to prever     Avoid direct skin contact with produ     (tested to EN374) if hand contact w</li> </ul>	<ul> <li>applicable local and/or national regulations.</li> <li>olling worker exposure for: PROC1, PROC2: Use in f exposure, Use in closed, continuous process with</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> <li>: No limit</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure</li> <li>: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> <li>:s ystem.</li> <li>t/limit releases, dispersion and exposure</li> <li>ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they attion immediately. Provide basic employee training to prevent /</li> </ul>

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	rolling worker exposure for: PROC3, PROC8b, PROC15:
	synthesis or formulation), Transfer of substance or ging) from/ to vessels/ large containers at dedicated agent
Product characteristics	
Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used	
Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affe	cting workers exposure
Remarks	: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.
Avoid direct skin contact with prod (tested to EN374) if hand contact v occur. Wash off any skin contamin	ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop., No specific measures identified.
	rolling worker exposure for: PROC4: Use in batch and re opportunity for exposure arises : Liquid substance : 2,8 kPa
Amount used	
Remarks	: No limit
	<ul> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> </ul>
Remarks Frequency and duration of use	: Covers daily exposures up to 8 hours (unless stated differently)
Remarks Frequency and duration of use Remarks Other operational conditions affect	<ul> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Remarks Frequency and duration of use Remarks Other operational conditions affec Remarks Technical conditions and measure Ensure operation is undertaken ou Organizational measures to preve Avoid direct skin contact with prod (tested to EN374) if hand contact w occur. Wash off any skin contamin	<ul> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Remarks Frequency and duration of use Remarks Other operational conditions affec Remarks Technical conditions and measure Ensure operation is undertaken ou Organizational measures to preve Avoid direct skin contact with prod (tested to EN374) if hand contact w occur. Wash off any skin contamin	<ul> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>cting workers exposure <ul> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul> </li> <li>es tdoors.</li> <li>ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent /</li> </ul>

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Conditions and measures related Wear suitable gloves tested to ENS	to personal protection, hygiene and health evaluation 374.
	rolling worker exposure for: PROC5: Mixing or blending in on of preparations and articles (multistage and/ or
Product characteristics Physical Form (at time of use)	: Liquid substance
Vapor pressure Amount used	: 2,8 kPa
Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affeo Remarks	<ul> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Technical conditions and measure Provide enhanced general ventilati	es on by mechanical means., Ensure operation is undertaken outdoors.
(tested to EN374) if hand contact w occur. Wash off any skin contamin minimise exposures and to report a	uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop. <b>to personal protection, hygiene and health evaluation</b> 874.
	rolling worker exposure for: PROC8a: Transfer of ging/discharging) from/to vessels/large containers at
Product characteristics Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affeo Remarks	<ul> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Technical conditions and measure	es estas
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Provide enhanced general ventilation by mechanical means.

#### Organizational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

#### **Conditions and measures related to personal protection, hygiene and health evaluation** Wear suitable gloves tested to EN374.

# 2.2 Contributing scenario controlling worker exposure for: PROC10: Roller application or brushing

Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Technical conditions and measure Provide enhanced general ventilati	es on by mechanical means., Ensure operation is undertaken outdoors.
Avoid direct skin contact with produ (tested to EN374) if hand contact w	<b>nt /limit releases, dispersion and exposure</b> uct. Identify potential areas for indirect skin contact. Wear gloves vith substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop.
	to personal protection, hygiene and health evaluation tested to EN374) in combination with 'basic' employee training.
Wear chemically resistant gloves (t	to personal protection, hygiene and health evaluation
Wear chemically resistant gloves (t 2.2 Contributing scenario contri	to personal protection, hygiene and health evaluation tested to EN374) in combination with 'basic' employee training.
Wear chemically resistant gloves (t 2.2 Contributing scenario contr spraying Product characteristics Physical Form (at time of use)	to personal protection, hygiene and health evaluation tested to EN374) in combination with 'basic' employee training. rolling worker exposure for: PROC11: Non industrial
Wear chemically resistant gloves (t 2.2 Contributing scenario contri- spraying Product characteristics Physical Form (at time of use) Vapor pressure Amount used	to personal protection, hygiene and health evaluation tested to EN374) in combination with 'basic' employee training. rolling worker exposure for: PROC11: Non industrial : Liquid substance : 2,8 kPa

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Other operational conditions affection Remarks	<ul> <li>ng workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Technical conditions and measures Carry out in a vented booth or extrac	ted enclosure., Ensure operation is undertaken outdoors.
Avoid direct skin contact with product (tested to EN374) if hand contact with occur. Wash off any skin contaminati	A <b>/limit releases, dispersion and exposure</b> t. Identify potential areas for indirect skin contact. Wear gloves h substance likely. Clean up contamination/spills as soon as they ion immediately. Provide basic employee training to prevent / y skin problems that may develop., Avoid carrying out operation for ce content in the product to 25%
Wear chemically resistant gloves (tes	personal protection, hygiene and health evaluation sted to EN374) in combination with 'basic' employee training., Wear EN374) in combination with specific activity training., Wear a Type A filter or better.
2.2 Contributing scenario contro articles by dipping and pouring	Iling worker exposure for: PROC13: Treatment of
Product characteristics	
Physical Form (at time of use)	: Liquid substance
Vapor pressure	: 2,8 kPa
Amount used	
Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affecti	ng workers exposure
Remarks	<ul> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Technical conditions and measures Provide extraction ventilation at point outdoors.	ts where emissions occur., Ensure operation is undertaken
Avoid direct skin contact with product (tested to EN374) if hand contact with occur. Wash off any skin contaminati	<b>Himit releases, dispersion and exposure</b> t. Identify potential areas for indirect skin contact. Wear gloves h substance likely. Clean up contamination/spills as soon as they ion immediately. Provide basic employee training to prevent / y skin problems that may develop., Avoid manual contact with wet
Conditions and measures related to Wear suitable gloves tested to EN374	personal protection, hygiene and health evaluation 4.
2.2 Contributing scenario contro intimate contact and only PPE av	Iling worker exposure for: PROC19: Hand-mixing with vailable
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					SAFE	TY DATA SHEE
[rusTec™	PRF Octane	e No. Bler	nds 80-98			
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Product chara	cteristics					
	m (at time of use)	· Liqui	id substance			
Vapor pressu	. ,	: 2,8 k				
vapor presso	110	. 2,0 k	a a			
mount used						
Remarks		: No li	mit			
roquoney and	d duration of use					
Remarks		· Cove	ers daily exposur	es un to 8 h	ours (unless	stated
Remarks			rently)		ours (uniess	Sidleu
)ther operatio	onal conditions af	fecting work	ers exposure			
Remarks			umes use at not r	more than 20	0°C above a	mbient
		temp	perature, unless s	stated differe	ently., Assun	nes a good basic
			dard of occupation			0
	ditions and meas					
Ensure opera	tion is undertaken	outdoors., En	sure doors and v	windows are	opened	
				ion and ave		
	I measures to pre					
	kin contact with pro					
(tested to EN3	374) if hand contac	ct with substar	nce likely. Clean	up contamir	nation/spills a	as soon as they
occur. Wash o	off any skin contar	nination imme	diately. Provide I	basic emplo	yee training	to prevent /
	osures and to repo					
more than 4 h			,			,
onditions and	d measures relate	ed to persona	al protection, hy	giene and	health evalu	uation
	ally resistant glove					
	ontrols., Wear a res					
supervision co		spirator como		with Type A		51.
. Exposure	estimation and i	reference to	its source			
Environment						
Contributing	Exposure	Specific	Compartment	Value type	Level of	Risk
Scenario	Assessment	conditions	Compartment	talao typo	Exposure	characterization
	Method					ratio (PEC/PNEC)
ERC8a, ERC8d	Hydrocarbon Block		Air		0,000074	
	Method with				mg/m3	
	Petrorisk		Fresh water			
	ł – – – – – – – – – – – – – – – – – – –				1() na/l	0.00027
	1		Freshwater		10 ng/L 220 ng/kg	0,00027 0,00015
					10 ng/L 220 ng/kg	0,00015
			Freshwater sediment Marine water		220 ng/kg 0,51 ng/L	0,00015
			Freshwater sediment		220 ng/kg	0,00015

Marine sediment Agricultural soil

ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8d: Wide dispersive outdoor use of processing aids in open systems

#### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC1, CS15	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	0,05 mg/m3	0,000
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined		0,000
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22 ng/kg 93 ng/kg

0,00016

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I	1		routes	1	
PROC2, CS15,	ECETOC TRA		Worker – inhalation,	93,43 mg/m3	0,046
CS38, CS45	Modified		long-term – systemic Worker – long-term – systemic Combined	1,37 mg/kg/d	0,002
			routes		
			Worker – inhalation, long-term – systemic		0,048
PROC3, CS96	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	116,79 mg/m3	0,057
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,058
PROC8b, CS3, CS8	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
			Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,009
			Worker – long-term – systemic Combined routes		0,124
PROC15, CS36	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	46,72 mg/m3	0,023
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,023
PROC4, CS95	ECETOC TRA Modified	Outdoor	Worker – inhalation, long-term – systemic	163,51 mg/m3	0,080
			Worker – dermal, long- term – systemic	1,372 mg/kg/d	0,002
			Worker – long-term – systemic Combined routes		0,082
PROC4, CS95	ECETOC TRA Modified	Indoor	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
			Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,009
			Worker – long-term – systemic Combined routes		0,124
PROC5, CS96	ECETOC TRA Modified	Indoor	Worker – inhalation, long-term – systemic	140,15 mg/m3	0,069
			Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,072
PROC5, CS96	ECETOC TRA Modified	Outdoor	Worker – inhalation, long-term – systemic	327,01 mg/m3	0,161
			Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,164
PROC8a, CS3, CS8	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	140,15 mg/m3	0,069
			Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,072
PROC10, CS98	ECETOC TRA Modified	Indoor	Worker – inhalation, long-term – systemic	140,15 mg/m3	0,069
			Worker – dermal, long- term – systemic	2,743 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,072
PROC10, CS98	ECETOC TRA	Outdoor	Worker – inhalation,	327,01 mg/m3	0,161

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	Modified		long-term – systemic	1	
			Worker – dermal, long- term – systemic	2,743 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,164
PROC11, CS10, CS34	ECETOC TRA Modified	Indoor	Worker – inhalation, long-term – systemic	280,29 mg/m3	0,138
			Worker – dermal, long- term – systemic	1,2859 mg/kg/d	0,002
			Worker – long-term – systemic Combined routes		0,139
PROC11, CS10, CS34	ECETOC TRA Modified	Outdoor	Worker – inhalation, long-term – systemic	196,21 mg/m3	0,096
			Worker – dermal, long- term – systemic	6,4284 mg/kg/d	0,008
			Worker – long-term – systemic Combined routes		0,105
PROC11, CS10, CS34	ECETOC TRA Modified	Outdoor	Worker – inhalation, long-term – systemic	163,51 mg/m3	0,080
			Worker – dermal, long- term – systemic	5,357 mg/kg/d	0,007
			Worker – inhalation, long-term – systemic		0,087
PROC13, CS4	ECETOC TRA Modified	Indoor	Worker – inhalation, long-term – systemic	93,43 mg/m3	0,046
			Worker – dermal, long- term – systemic	0,6855 mg/kg/d	0,001
			Worker – long-term – systemic Combined routes		0,047
PROC13, CS4 ECETOC TRA Modified	Outdoor	Worker – inhalation, long-term – systemic	327,01 mg/m3	0,161	
			Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,164
PROC19, CS72	ECETOC TRA Modified	Indoor	Worker – inhalation, long-term – systemic	140,15 mg/m3	0,069
			Worker – dermal, long- term – systemic	2,8286 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,073
PROC19, CS72	ECETOC TRA Modified	Outdoor	Worker – inhalation, long-term – systemic	196,21 mg/m3	0,096
			Worker – dermal, long- term – systemic	2,8286 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,100
PROC19, CS72	ECETOC TRA Modified	Outdoor	Worker – inhalation, long-term – systemic	32,70 mg/m3	0,016
			Worker – dermal, long- term – systemic	2,8286 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,020
CS15: Gener PROC2: Use CS15: Gener CS38: Use in	al exposures (clos contained system	ed systems) ous process w ed systems) is		led exposure	
PROC3: Use	in closed batch pr	ocess (synthe	esis or formulation)		

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CS96: Preparation of material for application

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS3: Material transfers CS8: Drum/batch transfers

PROC15: Use as laboratory reagent CS36: Laboratory activities

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS95: Film formation - air drying

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS95: Film formation - air drying

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) CS96: Preparation of material for application

PROC5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/ or significant contact) CS96: Preparation of material for application

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS3: Material transfers CS8: Drum/batch transfers

PROC10: Roller application or brushing CS98: Roller, spreader, flow application

PROC10: Roller application or brushing CS98: Roller, spreader, flow application

PROC11: Non industrial spraying CS10: Spraying CS34: Manual

PROC11: Non industrial spraying CS10: Spraying CS34: Manual

PROC11: Non industrial spraying CS10: Spraying CS34: Manual

PROC13: Treatment of articles by dipping and pouring CS4: Dipping, immersion and pouring

PROC13: Treatment of articles by dipping and pouring CS4: Dipping, immersion and pouring

PROC19: Hand-mixing with intimate contact and only PPE available CS72: Hand application - finger-paints, pastels, adhesives

PROC19: Hand-mixing with intimate contact and only PPE available CS72: Hand application - finger-paints, pastels, adhesives

PROC19: Hand-mixing with intimate contact and only PPE available

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CS72: Hand application - finger-paints, pastels, adhesives

# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.Guidance is based on assumed

operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

#### 1. Short title of Exposure Scenario: Use as a cleaning agent - industrial

Main User Groups Sector of use Process category	<ul> <li>SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites</li> <li>SU3: Industrial Manufacturing (all)</li> <li>PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure</li> <li>PROC3: Use in closed batch process (synthesis or formulation)</li> <li>PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises</li> <li>PROC7: Industrial spraying</li> <li>PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</li> <li>PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities</li> <li>PROC10: Roller application or brushing</li> <li>PROC13: Treatment of articles by dipping and pouring</li> </ul>
Environmental release category	: <b>ERC4:</b> Industrial use of processing aids in processes and products, not becoming part of articles
Further information	: Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.
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	olling environmental exposure for:ERC4: Industrial use of nd products, not becoming part of articles
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (tonnes/day): (Msafe)	: 6.800 tonnes/day
Environment factors not influenced	l by risk management : 18.000 m3/d
Dilution Factor (River) Dilution Factor (Coastal Areas)	: 10
Other given operational conditions Continuous use/release	affecting environmental exposure
Number of emission days per year	: 20
Emission or Release Factor: Air	: 100 %
Emission or Release Factor: Soil	: 0%
Remarks	: Emission or Release Factor: Water : < 0.001 %
Technical conditions and measures	/ Organizational massures
Air	<ul> <li>Treat air emission to provide a typical removal efficiency of (%): (Effectiveness: 70 %)</li> </ul>
Water	<ul> <li>Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%): (Effectiveness: 0 %)</li> </ul>
Water	<ul> <li>If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%): (Effectiveness: 0 %)</li> </ul>
Remarks	<ul> <li>Common practices vary across sites thus conservative process release estimates used.</li> </ul>
Remarks	: Prevent discharge of undissolved substance to or recover from onsite wastewater.
Remarks Remarks	<ul><li>Risk from environmental exposure is driven by freshwater.</li><li>No wastewater treatment required.</li></ul>
Type of Sewage Treatment Plant Flow rate of sewage treatment	<ul> <li>municipal sewage treatment plant</li> <li>Municipal sewage treatment plant</li> <li>2.000 m3/d</li> </ul>
plant effluent	00.0.%
Effectiveness (of a measure) Percentage removed from waste water	: 96,3 % : 96,3 %
Conditions and measures related to Remarks	<ul> <li>external treatment of waste for disposal</li> <li>External treatment and disposal of waste should comply with</li> </ul>
Conditions and measures related to	applicable local and/or national regulations.
Recovery Methods	: External recovery of waste : External recovery and recycling of waste should comply with applicable local and/or national regulations.
closed, continuous process with	olling worker exposure for: PROC2, PROC3: Use in n occasional controlled exposure, Use in closed batch on)
process (synthesis or formiliation	
process (synthesis or formulation Product characteristics	
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TrusTec™ PRF Octane I	SAFETY DATA SHEET No. Blends 80-98
Version 1.13	Revision Date 2022-11-1
Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affe Remarks	<ul> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Avoid direct skin contact with prod (tested to EN374) if hand contact v occur. Wash off any skin contamin	ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop., No specific measures identified
	rolling worker exposure for: PROC4, PROC13: Use in hesis) where opportunity for exposure arises, Treatment o g
Product characteristics Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affer Remarks	<ul> <li>cting workers exposure</li> <li>Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.</li> </ul>
Technical conditions and measur Provide extraction ventilation at po	
Avoid direct skin contact with prod (tested to EN374) if hand contact v occur. Wash off any skin contamin	ent /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop.
2.2 Contributing scenario cont	rolling worker exposure for: PROC7: Industrial spraying
Product characteristics	
Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa

TrusTec™ PRF Octane N	SAFETY DATA SHEET
Version 1.13	Revision Date 2022-11-17
Version 1.15	
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>ting workers exposure</li> <li>Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.</li> </ul>
Technical conditions and measure Provide enhanced general ventilation	
Avoid direct skin contact with produ (tested to EN374) if hand contact w occur. Wash off any skin contamina	<b>nt /limit releases, dispersion and exposure</b> cct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / ny skin problems that may develop., Avoid carrying out operation for
	<b>to personal protection, hygiene and health evaluation</b> ested to EN374) in combination with 'basic' employee training., Wear vith Type A filter or better.
	olling worker exposure for: PROC8a, PROC8b: Transfer
of substance or preparation (ch non-dedicated facilities, Transfe from/ to vessels/ large containe Product characteristics Physical Form (at time of use)	arging/discharging) from/to vessels/large containers at er of substance or preparation (charging/ discharging) ers at dedicated facilities : Liquid substance
of substance or preparation (ch non-dedicated facilities, Transfe from/ to vessels/ large containe Product characteristics Physical Form (at time of use) Vapor pressure Amount used	<ul> <li>arging/discharging) from/to vessels/large containers at er of substance or preparation (charging/ discharging) ers at dedicated facilities</li> <li>Liquid substance</li> <li>2,8 kPa</li> </ul>
of substance or preparation (ch non-dedicated facilities, Transfe from/ to vessels/ large containe Product characteristics Physical Form (at time of use) Vapor pressure	arging/discharging) from/to vessels/large containers at er of substance or preparation (charging/ discharging) ers at dedicated facilities : Liquid substance
of substance or preparation (ch non-dedicated facilities, Transfe from/ to vessels/ large containe Product characteristics Physical Form (at time of use) Vapor pressure Amount used	<ul> <li>arging/discharging) from/to vessels/large containers at er of substance or preparation (charging/ discharging) ers at dedicated facilities</li> <li>Liquid substance</li> <li>2,8 kPa</li> </ul>
of substance or preparation (ch non-dedicated facilities, Transfe from/ to vessels/ large containe Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use	<ul> <li>arging/discharging) from/to vessels/large containers at er of substance or preparation (charging/ discharging) ers at dedicated facilities</li> <li>Liquid substance</li> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> </ul>
of substance or preparation (ch non-dedicated facilities, Transfe from/ to vessels/ large contained Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use Remarks Other operational conditions affect Remarks Other operational conditions affect Remarks	<ul> <li>arging/discharging) from/to vessels/large containers at er of substance or preparation (charging/ discharging) ers at dedicated facilities</li> <li>Liquid substance</li> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>ting workers exposure</li> <li>Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.</li> <li>th /limit releases, dispersion and exposure</li> <li>ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent /</li> </ul>
of substance or preparation (ch non-dedicated facilities, Transfe from/ to vessels/ large contained Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use Remarks Other operational conditions affect Remarks Other operational conditions affect Remarks Organizational measures to prever Avoid direct skin contact with produ (tested to EN374) if hand contact w occur. Wash off any skin contamina minimise exposures and to report a	<ul> <li>arging/discharging) from/to vessels/large containers at er of substance or preparation (charging/ discharging) ers at dedicated facilities</li> <li>Liquid substance</li> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> </ul> ting workers exposure <ul> <li>Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.</li> </ul> t/limit releases, dispersion and exposure ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they atten immediately. Provide basic employee training to prevent / ny skin problems that may develop.
of substance or preparation (ch non-dedicated facilities, Transfe from/ to vessels/ large contained Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use Remarks Other operational conditions affect Remarks Other operational measures to prever Avoid direct skin contact with produ (tested to EN374) if hand contact w occur. Wash off any skin contamina minimise exposures and to report a Conditions and measures related t Wear suitable gloves tested to EN3	<ul> <li>arging/discharging) from/to vessels/large containers at er of substance or preparation (charging/ discharging) ers at dedicated facilities</li> <li>Liquid substance</li> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> </ul> ting workers exposure <ul> <li>Assumes a good basic standard of occupational hygiene is implemented., Assumes use at not more than 20°C above ambient temperature, unless stated differently.</li> </ul> t/limit releases, dispersion and exposure ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they atten immediately. Provide basic employee training to prevent / ny skin problems that may develop.

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#### brushing

Product chara Physical For Vapor press	rm (at time of use)	: Liqu : 2,8 k	id substance ‹Pa			
Amount used Remarks		: No li	mit			
Frequency an Remarks	d duration of use		ers daily exposur rently)	es up to 8 ł	nours (unless	stated
<b>Other operation</b> Remarks	onal conditions af	: Assu imple	ers exposure umes a good bas emented., Assum ient temperature	nes use at r	not more than	20°C above
Avoid direct s (tested to EN occur. Wash minimise exp Conditions ar Wear chemic	al measures to preskin contact with prosine contact with prosine contact off any skin contact	oduct. Identify it with substan ination imme rt any skin pro ad to person s (tested to E	v potential areas ince likely. Clean indiately. Provide l oblems that may al protection, hy N374) in combina	for indirect up contami basic emplo develop. /giene and	skin contact. nation/spills a byee training t health evalu	as soon as they to prevent / nation
Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC
ERC4	Hydrocarbon Block Method with Petrorisk		Air		4,6 µg/m3	
			Fresh water		5,7 ng/L	0,00015
			Freshwater sediment		99 ng/kg	0,00007
			Marina water		0.000050	
			Marine water		0,000056 µg/L	< 0,000015
			Marine sediment		2,4 ng/kg	< 0,000017
ERC4: Indus	strial use of process	sing aids in pr	Marine sediment Agricultural soil	ducts, not t	2,4 ng/kg 42 ng/kg	< 0,000017 < 0,000091

Contributing Specific Exposure Value type Level of Exposure Risk characterization Scenario Assessment conditions ratio (PEC/PNEC): Method PROC2, CS93, ECETOC TRA Worker - inhalation, 46,72 mg/m3 0,023 CS38 Modified long-term – systemic Worker - dermal, long-1,37 mg/kg/d 0,002 term – systemic Worker – long-term – 0,025 systemic Combined routes PROC3, CS8, ECETOC TRA 0,057 116,79 mg/m3 Worker - inhalation, CS93, CS101 Modified long-term - systemic Worker - dermal, long-0,34 mg/kg/d 0,000 SDS Number:100000014260 86/139

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		term – systemic		
		Worker – long-term – systemic Combined routes		0,058
PROC4, CS37	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	9,34 mg/m3	0,005
		Worker – dermal, long- term – systemic	0,686 mg/kg/d	0,001
		Worker – long-term – systemic Combined routes		0,005
PROC13, CS41	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	23,86 mg/m3	0,011
		Worker – dermal, long- term – systemic	0,6855 mg/kg/d	0,001
		Worker – long-term – systemic Combined routes		0,0012
PROC7, CS44	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	210,22 mg/m3	0,103
		Worker – dermal, long- term – systemic	4,286 mg/kg/d	0,006
		Worker – long-term – systemic Combined		0,109
PROC7, CS44	ECETOC TRA Modified	vortes Worker – inhalation,	35,04 mg/m3	0,017
	Iniodined	long-term – systemic Worker – dermal, long- term – systemic	4,286 mg/kg/d	0,006
		Worker – long-term – systemic Combined routes		0,023
PROC8b, CS14	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
	Modified	Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
		Worker – long-term – systemic Combined routes		0,118
PROC8b, CS45	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
		Worker – dermal, long- term – systemic	1,372 mg/kg/d	0,002
		Worker – long-term – systemic Combined routes		0,117
PROC10, CS34, CS42, CS48, CS47	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
		Worker – dermal, long- term – systemic	2,743 mg/kg/d	0,004
		Worker – long-term – systemic Combined routes		0,118
CS93: Autom CS38: Use in PROC3: Use CS8: Drum/b CS93: Autom CS101: Appl PROC4: Use	ated process with contained system in closed batch p atch transfers nated process with ication of cleaning	ocess (synthesis or formulation) (semi) closed systems. products in closed systems		arises
		by dipping and pouring s in cleaning station		
SDS Number:1	0000014260	87/-	130	
SDS Number. I	0000014200	07/	100	

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PROC7: Industrial spraying CS44: Cleaning with high pressure washers

PROC7: Industrial spraying CS44: Cleaning with high pressure washers

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS14: Bulk transfers

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS45: Filling/ preparation of equipment from drums or containers.

PROC10: Roller application or brushing CS34: Manual CS42: Cleaning with low-pressure washers CS48: Surfaces CS47: Cleaning

# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

# Short title of Exposure Scenario: Use as a cleaning agent – professional

Main User Groups	: <b>SU 22:</b> Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Sector of use	: <b>SU 22:</b> Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Process category	: <b>PROC1:</b> Use in closed process, no likelihood of exposure <b>PROC2:</b> Use in closed, continuous process with occasional controlled exposure
	<b>PROC3:</b> Use in closed batch process (synthesis or formulation)
	<b>PROC4:</b> Use in batch and other process (synthesis) where opportunity for exposure arises
	PROC8a: Transfer of substance or preparation
	(charging/discharging) from/to vessels/large containers at non-dedicated facilities
	<b>PROC8b:</b> Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated
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rusTec™ PRF Octane No	SAFETY DATA SHEE
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	facilities
	PROC10: Roller application or brushing
	PROC11: Non industrial spraying
	<b>PROC13:</b> Treatment of articles by dipping and pouring
Environmental release category	: ERC8a, ERC8d: Wide dispersive indoor use of processing
2mm enmental release category	aids in open systems, Wide dispersive outdoor use of
	processing aids in open systems
	processing alds in open systems
Further information	
	Covers the use as a component of cleaning products includin
	pouring/unloading from drums or containers; and exposures
	during mixing/diluting in the preparatory phase and cleaning
	activities (including spraying, brushing, dipping, wiping
	automated and by hand).
	automated and by hand).
2.1 Contributing scenario contro	lling environmental exposure for:ERC8a, ERC8d: Wide
lispersive indoor use of process	sing aids in open systems, Wide dispersive outdoor use
of processing aids in open syste	
in proceeding alde in open cycle	
Maximum allowable site tonnage	: 210
(MSafe) based on release	. 210
following total wastewater	
treatment removal (kg/d):(Msafe)	
Environment factors not influenced	
Flow rate	: 18.000 m3/d
Dilution Factor (River)	: 10
Dilution Factor (Coastal Areas)	: 100
	<i>•••••••••••••••••••••••••••••••••••••</i>
Other given operational conditions a	affecting environmental exposure
Continuous use/release	
	: 365
Emission or Release Factor: Air	
Emission or Release Factor: Soil	: 0%
Remarks	: Emission or Release Factor: Water : < 0.001 %
<b>Fechnical conditions and measures</b>	
Air	: Treat air emission to provide a typical removal efficiency of
	(%):
Remarks	: Not applicable
Water	: Treat onsite wastewater (prior to receiving water discharge) to
	provide the required removal efficiency of $\geq$ (%):
	(Effectiveness: 0 %)
Water	: If discharging to domestic sewage treatment plant, provide the
	required onsite wastewater removal efficiency of $\geq$ (%):
	(Effectiveness: 0 %)
Remarks	: Common practices vary across sites thus conservative
	process release estimates used.
	provess release esumates useu.
Conditions and measures related to	municipal sewage treatment plant
Type of Sewage Treatment Plant	
Flow rate of sewage treatment	
	: 2.000 m3/d
plant effluent	
plant effluent Effectiveness (of a measure)	: 96,3 %
plant effluent	: 96,3 % : 96,3 %
plant effluent Effectiveness (of a measure)	

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water Sludge Treatment Procedures to limit air emissions from Sewage Treatment Plant	: No data available : No data available
Conditions and measures related Remarks Conditions and measures related Recovery Methods	<ul> <li>to external treatment of waste for disposal</li> <li>External treatment and disposal of waste should comply with applicable local and/or national regulations.</li> <li>to external recovery of waste</li> <li>External recovery and recycling of waste should comply with applicable local and/or national regulations.</li> </ul>
•	rolling worker exposure for: PROC2, PROC3: Use in th occasional controlled exposure, Use in closed batch ion)
<b>Product characteristics</b> Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affeo Remarks	<ul> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Avoid direct skin contact with produ (tested to EN374) if hand contact w occur. Wash off any skin contamina	nt /limit releases, dispersion and exposure uct. Identify potential areas for indirect skin contact. Wear gloves vith substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop., No specific measures identified
	rolling worker exposure for: PROC4: Use in batch and re opportunity for exposure arises
Product characteristics Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
	ting workers exposure : Assumes use at not more than 20°C above ambient
Other operational conditions affect Remarks	temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.

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#### Technical conditions and measures

Provide enhanced general ventilation by mechanical means., Ensure operation is undertaken outdoors.

#### Organizational measures to prevent /limit releases, dispersion and exposure

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.

#### **Conditions and measures related to personal protection, hygiene and health evaluation** Wear suitable gloves tested to EN374.

# 2.2 Contributing scenario controlling worker exposure for: PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

<b>Product characteristics</b> Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>ing workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Technical conditions and measure Ensure operation is undertaken out	
Avoid direct skin contact with produ (tested to EN374) if hand contact w occur. Wash off any skin contamina minimise exposures and to report a	<b>It /limit releases, dispersion and exposure</b> ct. Identify potential areas for indirect skin contact. Wear gloves th substance likely. Clean up contamination/spills as soon as they tion immediately. Provide basic employee training to prevent / ny skin problems that may develop.
Wear suitable gloves tested to EN3	
	olling worker exposure for: PROC8b: Transfer of ging/ discharging) from/ to vessels/ large containers at
<b>Product characteristics</b> Physical Form (at time of use)	: Liquid substance
Vapor pressure	: 2,8 kPa
Vapor pressure Amount used Remarks	: 2,8 kPa : No limit
Vapor pressure Amount used	

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Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>ting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Avoid direct skin contact with product (tested to EN374) if hand contact with the end of	<b>It /limit releases, dispersion and exposure</b> ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they tion immediately. Provide basic employee training to prevent / ny skin problems that may develop.
Conditions and measures related to Wear suitable gloves tested to EN3	o personal protection, hygiene and health evaluation 74.
2.2 Contributing scenario contro brushing	olling worker exposure for: PROC10: Roller application or
<b>Product characteristics</b> Physical Form (at time of use) Vapor pressure	: Liquid substance : 2,8 kPa
Amount used Remarks	: No limit
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	<ul> <li>ting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
Technical conditions and measures Ensure doors and windows are open Provide extraction ventilation at poir	ned, Provide enhanced general ventilation by mechanical means.,
Avoid direct skin contact with product (tested to EN374) if hand contact with occur. Wash off any skin contamina	<b>At /limit releases, dispersion and exposure</b> ct. Identify potential areas for indirect skin contact. Wear gloves ith substance likely. Clean up contamination/spills as soon as they tion immediately. Provide basic employee training to prevent / ny skin problems that may develop., Limit the substance content in
	o personal protection, hygiene and health evaluation 74., Wear chemically resistant gloves (tested to EN374) in raining.
2.2 Contributing scenario contro spraying	olling worker exposure for: PROC11: Non industrial
<b>Product characteristics</b> Physical Form (at time of use)	: Liquid substance
SDS Number:100000014260	92/139

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Vapor pressure	: 2,8 kPa
Amount used	
Remarks	: No limit
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affeo	
Remarks	: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.
Technical conditions and measure Provide enhanced general ventilation	<b>es</b> ion by mechanical means., Ensure operation is undertaken outdoors.
Avoid direct skin contact with product (tested to EN374) if hand contact work occur. Wash off any skin contamin minimise exposures and to report a the product to 1%, Limit the substated	
Conditions and measures related Wear suitable gloves tested to EN3	to personal protection, hygiene and health evaluation 374.
2.2 Contributing scenario cont	rolling worker exposure for: PROC13: Treatment of
2.2 Contributing scenario cont articles by dipping and pouring Product characteristics Physical Form (at time of use) Vapor pressure	rolling worker exposure for: PROC13: Treatment of g : Liquid substance : 2,8 kPa
articles by dipping and pouring Product characteristics Physical Form (at time of use)	g : Liquid substance
articles by dipping and pouring Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks	g Liquid substance : 2,8 kPa
articles by dipping and pouring Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use Remarks	<ul> <li>g</li> <li>Liquid substance</li> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> </ul>
articles by dipping and pouring Product characteristics Physical Form (at time of use) Vapor pressure Amount used Remarks Frequency and duration of use Remarks Other operational conditions affect Remarks	<ul> <li>g</li> <li>Liquid substance</li> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
<ul> <li>articles by dipping and pouring</li> <li>Product characteristics         <ul> <li>Physical Form (at time of use)</li> <li>Vapor pressure</li> </ul> </li> <li>Amount used         <ul> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use             <ul> <li>Remarks</li> </ul> </li> <li>Other operational conditions affed             <ul> <li>Remarks</li> </ul> </li> <li>Technical conditions and measure             <ul> <li>Provide enhanced general ventilation</li> <li>Organizational measures to preverse             <ul> <li>Avoid direct skin contact with product tested to EN374) if hand contact v             occur. Wash off any skin contamin</li> </ul> </li> </ul></li></ul>	<ul> <li>g</li> <li>Liquid substance</li> <li>2,8 kPa</li> <li>No limit</li> <li>Covers daily exposures up to 8 hours (unless stated differently)</li> <li>cting workers exposure</li> <li>Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> </ul>
<ul> <li>articles by dipping and pouring</li> <li>Product characteristics <ul> <li>Physical Form (at time of use)</li> <li>Vapor pressure</li> </ul> </li> <li>Amount used <ul> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use <ul> <li>Remarks</li> </ul> </li> <li>Other operational conditions affect <ul> <li>Remarks</li> </ul> </li> <li>Other operational conditions affect <ul> <li>Remarks</li> </ul> </li> <li>Technical conditions and measure <ul> <li>Provide enhanced general ventilati</li> </ul> </li> <li>Organizational measures to preve <ul> <li>Avoid direct skin contact with product to EN374) if hand contact work occur. Wash off any skin contamin minimise exposures and to report and the second second</li></ul></li></ul>	<ul> <li>g</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> <li>: No limit</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> <li>cting workers exposure</li> <li>: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> <li>es</li> <li>ion by mechanical means.</li> <li>ent /limit releases, dispersion and exposure</li> <li>uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop.</li> <li>to personal protection, hygiene and health evaluation</li> </ul>
<ul> <li>articles by dipping and pouring</li> <li>Product characteristics         <ul> <li>Physical Form (at time of use)</li> <li>Vapor pressure</li> </ul> </li> <li>Amount used         <ul> <li>Remarks</li> </ul> </li> <li>Frequency and duration of use             <ul> <li>Remarks</li> </ul> </li> <li>Other operational conditions affed             <ul> <li>Remarks</li> </ul> </li> <li>Technical conditions and measure             <ul> <li>Provide enhanced general ventilati</li> <li>Organizational measures to prevere             <ul> <li>Avoid direct skin contact with prodution (tested to EN374) if hand contact with occur. Wash off any skin contamining minimise exposures and to report at a conditions and measures related</li> </ul> </li> </ul></li></ul>	<ul> <li>g</li> <li>: Liquid substance</li> <li>: 2,8 kPa</li> <li>: No limit</li> <li>: Covers daily exposures up to 8 hours (unless stated differently)</li> <li>cting workers exposure</li> <li>: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented.</li> <li>es</li> <li>ion by mechanical means.</li> <li>ent /limit releases, dispersion and exposure</li> <li>uct. Identify potential areas for indirect skin contact. Wear gloves with substance likely. Clean up contamination/spills as soon as they ation immediately. Provide basic employee training to prevent / any skin problems that may develop.</li> <li>to personal protection, hygiene and health evaluation</li> </ul>

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#### 3. Exposure estimation and reference to its source

#### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
ERC8a, ERC8d	Hydrocarbon Block Method with Petrorisk		Air		74 ng/m3	
			Fresh water		5,1 ng/L	0,00013
			Fresh water sediment		75 ng/kg	0,000053
			Marine water		0,017 ng/L	< 0,000033
			Marine sediment		0,16 ng/kg	< 0,000012
			Agricultural soil		1,2 ng/kg	< 0,000034

ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8d: Wide dispersive outdoor use of processing aids in open systems

#### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterizatior ratio (PEC/PNEC):
PROC2, CS93, CS38	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	93,43 mg/m3	0,046
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,002
			Worker – long-term – systemic Combined routes		0,048
PROC3, CS8, CS38, CS93	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	116,79 mg/m3	0,057
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,000
			Worker – long-term – systemic Combined routes		0,058
PROC4, CS76	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	70,07 mg/m3	0,034
			Worker – dermal, long- term – systemic	1,372 mg/kg/d	0,002
			Worker – long-term – systemic Combined routes		0,036
PROC4, CS101	ECETOC TRA Modified	Outdoor	Worker – inhalation, long-term – systemic	163,51 mg/m3	0,080
			Worker – dermal, long- term – systemic	1,372 mg/kg/d	0,002
			Worker – long-term – systemic Combined routes		0,082
PROC4, CS74	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
			Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,009
			Worker – long-term – systemic Combined routes		0,124
PROC8a, CS45	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	327,01 mg/m3	0,161
			Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,164
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PROC8b, CS45	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	233,58 mg/m3	0,115
			Worker – dermal, long- term – systemic	1,372 mg/kg/d	0,002
			Worker – long-term – systemic Combined routes		0,117
PROC10, CS42, CS51, CS60	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	140,15 mg/m3	0,069
			Worker – dermal, long- term – systemic	5,486 mg/kg/d	0,007
			Worker – long-term – systemic Combined routes		0,076
PROC10, CS10, CS34, CS47, CS48	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	140,15 mg/m3	0,069
			Worker – dermal, long- term – systemic	2,743 mg/kg/d	0,004
			Worker – long-term – systemic Combined routes		0,072
PROC10, CS27, CS51	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	56,06 mg/m3	0,028
			Worker – dermal, long- term – systemic	0,8229 mg/kg/d	0,001
			Worker – long-term – systemic Combined routes		0,142
PROC10, CS27, CS51	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	280,29 mg/m3	0,138
			Worker – dermal, long- term – systemic	3,2916 mg/kg/d	0,004
			Worker – inhalation, long-term – systemic		0,142
PROC11, CS44, CS10	ECETOC TRA Modified	Indoor	Worker – inhalation, long-term – systemic	140,15 mg/m3	0,069
	···········		Worker – dermal, long- term – systemic	4,2856 mg/kg/d	0,006
			Worker – long-term – systemic Combined routes		0,074
PROC11, CS44, CS10	ECETOC TRA Modified	Outdoor	Worker – inhalation, long-term – systemic	163,51 mg/m3	0,080
			Worker – dermal, long- term – systemic	2,1428 mg/kg/d	0,003
			Worker – long-term – systemic Combined routes		0,083
PROC11, CS10, CS44	ECETOC TRA Modified	Outdoor	Worker – inhalation, long-term – systemic	327,01 mg/m3	0,161
			Worker – dermal, long- term – systemic	4,2856 mg/kg/d	0,006
			Worker – long-term – systemic Combined routes		0,166
PROC13, CS4, CS34, CS47, CS48	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	140,15 mg/m3	0,069
• •			Worker – dermal, long- term – systemic	2,742 mg/kg/d	0,004
			Worker – long-term – systemic Combined		0,072
CS93: Autom	in closed, continue ated process with contained system	(semi) closed	vith occasional control systems.	led exposure	
CS8: Drum/ba			esis or formulation)		
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CS93: Automated process with (semi) closed systems.

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS76: Semi Automated process. (e.g.: Semi automatic application of floor care and maintenance products)

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS101: Application of cleaning products in closed systems

PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises CS74: Cleaning of medical devices

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities CS45: Filling/ preparation of equipment from drums or containers.

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS45: Filling/ preparation of equipment from drums or containers.

PROC10: Roller application or brushing CS42: Cleaning with low-pressure washers CS51: Rolling, Brushing CS60: no spraying

PROC10: Roller application or brushing CS10: Spraying CS34: Manual CS47: Cleaning CS48: Surfaces

PROC10: Roller application or brushing CS27: Ad hoc manual application via trigger sprays, dipping, etc. CS51: Rolling, Brushing

PROC10: Roller application or brushing CS27: Ad hoc manual application via trigger sprays, dipping, etc. CS51: Rolling, Brushing

PROC11: Non industrial spraying CS44: Cleaning with high pressure washers CS10: Spraying

PROC11: Non industrial spraying CS44: Cleaning with high pressure washers CS10: Spraying

PROC11: Non industrial spraying CS10: Spraying CS44: Cleaning with high pressure washers

PROC13: Treatment of articles by dipping and pouring CS4: Dipping, immersion and pouring CS34: Manual CS47: Cleaning CS48: Surfaces

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# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Measures/Operational Conditions of Available hazard data do not enable Risk Management Measures are b Where other Risk Management Me ensure that risks are managed to a	cted to exceed the DN(M)EL when the Risk Management outlined in Section 2 are implemented. le the derivation of a DNEL for dermal irritant effects. ased on qualitative risk characterisation. easures/Operational Conditions are adopted, then users should at least equivalent levels.Guidance is based on assumed t be applicable to all sites; thus, scaling may be necessary to a management measures.
either alone or in combination. Required removal efficiency for air combination.	stewater can be achieved using onsite/offsite technologies, can be achieved using on-site technologies, either alone or in rol technologies are provided in SpERC factsheet ries-libraries.html).
1. Short title of Exposure Scenario: Use	e as a cleaning agent – consumer
Main User Groups	: <b>SU 21:</b> Consumer uses: Private households (= general public = consumers)
Sector of use	<ul> <li>SU 21: Consumer uses: Private households (= general public = consumers)</li> </ul>
Product category	<ul> <li>PC3: Air care products</li> <li>PC4: Anti-Freeze and de-icing products</li> <li>PC8: Biocidal products (e.g. Disinfectants, pest control)</li> <li>PC9a: Coatings and paints, thinners, paint removers</li> <li>PC9b: Fillers, putties, plasters, modelling clay</li> <li>PC9c: Finger paints</li> <li>PC24: Lubricants, greases, release products</li> <li>PC35: Washing and cleaning products (including solvent based products)</li> <li>PC38: Welding and soldering products (with flux coatings or flux cores.), flux products</li> </ul>
Environmental release category	: <b>ERC8a, ERC8d:</b> Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
Further information	: Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products.
	ling environmental exposure for:ERC8a, ERC8d: Wide ing aids in open systems, Wide dispersive outdoor use ns
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following total wastewater treatment removal (kg/d): (Msafe)	
Environment factors not influenced Flow rate	by risk management : 18.000 m3/d
Dilution Factor (River)	
Dilution Factor (Coastal Areas)	: 100
Other given operational conditions	affecting environmental exposure
Continuous use/release	
Number of emission days per year	· 365
Emission or Release Factor: Air	· 05 %
Emission or Release Factor: Water	. 95 %
Emission or Release Factor: Soil	: 2,5 %
Technical conditions and measures	/ Organizational moasures
Remarks	
Remarks	: Not applicable
Conditions and measures related to	municipal sewage treatment plant
	: Municipal sewage treatment plant
Flow rate of sewage treatment	
	. 2.000 113/0
plant effluent Percentage removed from waste	. 06.2.9/
u u u u u u u u u u u u u u u u u u u	. 90,3 %
water	. No doto ovoilabla
Sludge Treatment	: No data available : No data available
Procedures to limit air emissions	
from Sewage Treatment Plant	
Conditions and measures related to	external treatment of waste for disposal
Waste treatment	: External treatment and disposal of waste should comply with
	applicable local and/or national regulations.
Conditions and measures related to	
Recovery Methods	: External recovery and recycling of waste should comply with
	applicable local and/or national regulations.
PC24, PC35, PC38: Air care prod products (e.g. Disinfectants, pes Thinners, Lubricants, greases, re	Illing consumer exposure for: PC3, PC4, PC8, PC9, lucts, Anti-Freeze and de-icing products, Biocidal at control), Coatings and Paints, Fillers, Putties, elease products, Washing and cleaning products ts), Welding and soldering products (with flux coatings
Product characteristics	· Liquid substance
Physical Form (at time of use)	: Liquid substance
Amount used	
	: 13800 g
	. 10000 y
Frequency and duration of use	
Exposure duration	: 8h
Frequency of use	: 4 times/day
	. т шпсо/чау
Human factors not influenced by ris	k management
Exposed skin area	: Skin
	: 857,5 cm2
Other given operational conditions	affecting consumers exposure
	00//00
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Version 1.13	Revision Date 2022-11-1
Room size Remarks	<ul> <li>20 M3</li> <li>Unless otherwise stated assumes use at ambient temperatures, Assumes use with typical ventilation.</li> </ul>
Conditions and measures related to protection and hygiene)	protection of consumer (e.g. behavioral advice, personal
Remarks	: No specific Risk Management Measures identified beyond those Operational Conditions stated.
2.2 Contributing scenario contro	Iling consumer exposure for: PC3: Air care products
Product characteristics Concentration of the Substance in	:
Mixture/Article Remarks	Air care, instant action (aerosol sprays)
Concentration of the Substance in Mixture/Article	:
Remarks	Air care, continuous action (solid and liquid)
Amount used	
Remarks	<ul> <li>0,1 g</li> <li>Air care, instant action (aerosol sprays)</li> <li>0,48 g</li> </ul>
Remarks	: Air care, continuous action (solid and liquid)
Frequency and duration of use	
Exposure duration	: 0,25 h
Frequency of use	: 4 times/day
Remarks	: Air care, instant action (aerosol sprays)
Exposure duration	: 8h
Frequency of use Remarks	<ul><li>1 times/day</li><li>Air care, continuous action (solid and liquid)</li></ul>
Human factors not influenced by ris	k management
Exposed skin area	: Skin
	: 35,70 cm2
Remarks	: Air care, continuous action (solid and liquid)
Other given operational conditions	
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Air care, instant action (aerosol sprays)
Outdoor / Indoor Room size	: Indoor activities : 20 M3
Ventilation rate per hour	: 20 M3 : 0,6
Remarks	: Air care, instant action (aerosol sprays)
Use frequency	: 365 days/year
Remarks	: Air care, instant action (aerosol sprays)
Use frequency	: 365 days/year
Remarks	: Air care, continuous action (solid and liquid)
Conditions and measures related to protection and hygiene)	protection of consumer (e.g. behavioral advice, personal
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Remarks	: No specific Risk Management Measures identified beyond those Operational Conditions stated.
2.2 Contributing scenario contro cing products	Iling consumer exposure for: PC4: Anti-Freeze and de-
Product characteristics	
	:
Mixture/Article	
Remarks	Washing car window
Concentration of the Substance in	:
Mixture/Article	
Remarks	Pouring into radiator
Concentration of the Substance in Mixture/Article	:
Remarks	Lock de- icer
Amount used	
	: 0,5 g
Remarks	: Washing car window
Remarks	: 2000 g : Pouring into radiator
	: 4 g
Remarks	: Lock de- icer
Frequency and duration of use	
Exposure duration	: 0,02 h
Frequency of use	: 1 times/day
Remarks	: Washing car window
Exposure duration	: 0,17 h
Frequency of use	: 1 times/day
Remarks	: Pouring into radiator
Exposure duration	: 0,25 h
Frequency of use Remarks	: 1 times/day : Lock de- icer
Human factors not influenced by ris	
Exposed skin area	: Skin
	: 428,00 cm2
Remarks	: Pouring into radiator
Exposed skin area	: Skin
	: 214,40 cm2
Remarks	: Lock de- icer
Other given operational conditions a Outdoor / Indoor	a <mark>ffecting consumers exposure</mark> : Garage
Room size	: 34 M3
Ventilation rate per hour	: 1,5
Remarks	: Washing car window
Outdoor / Indoor	: Garage
Room size	: 34 M3
Ventilation rate per hour	: 1,5
Remarks	: Pouring into radiator
Outdoor / Indoor	: Garage
Room size	: 34 M3
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Ventilation rate per hour Remarks	: 1,5 : Lock de- icer
Use frequency	: 365 days/year
Remarks	: Washing car window
Use frequency	: 365 days/year
Remarks	: Pouring into radiator
Use frequency	: 365 days/year
Remarks	: Lock de- icer
	protection of consumer (e.g. behavioral advice, personal
protection and hygiene) Remarks	: No specific Risk Management Measures identified beyond those Operational Conditions stated.
2.2 Contributing scenario control (e.g. Disinfectants, pest control)	lling consumer exposure for: PC8: Biocidal products
(e.g. Disiniectants, pest control)	
Product characteristics	
Concentration of the Substance in	:
Mixture/Article Remarks	Laundry and dish washing products
Concentration of the Substance in	:
Mixture/Article	Oleanana linuida (all numero aleanana anaitemumeduata fla
Remarks	Cleaners, liquids (all purpose cleaners, sanitary products, floc cleaners, glass cleaners, carpet cleaners, metal cleaners)
Concentration of the Substance in	:
Mixture/Article	
Remarks	Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)
Amount used	
	: 15 g
Remarks	: Laundry and dish washing products
	: 27 g
Remarks	<ul> <li>Cleaners, liquids (all purpose cleaners, sanitary products, floc cleaners, glass cleaners, carpet cleaners, metal cleaners)</li> <li>35 g</li> </ul>
Remarks	: Cleaners, trigger sprays (all purpose cleaners, sanitary
Romano	products, glass cleaners)
Frequency and duration of use	
Exposure duration	: 0,50 h
Frequency of use	: 1 times/day
Remarks	: Laundry and dish washing products
Exposure duration	: 0,33 h
Frequency of use	: 1 times/day
Remarks	: Cleaners, liquids (all purpose cleaners, sanitary products, floc cleaners, glass cleaners, carpet cleaners, metal cleaners)
Exposure duration	: 0,17 h
Frequency of use Remarks	<ul> <li>1 times/day</li> <li>Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)</li> </ul>
Human factors not influenced by ris	
·	
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Exposed skin area	: Skin : 857,50 cm2
Remarks	: Laundry and dish washing products
Exposed skin area	: Skin
Exposed skill alea	
	: 857,50 cm2
Remarks	: Cleaners, liquids (all purpose cleaners, sanitary products, floor
	cleaners, glass cleaners, carpet cleaners, metal cleaners)
Exposed skin area	: Skin
	: 428,00 cm2
Remarks	: Cleaners, trigger sprays (all purpose cleaners, sanitary
Romano	products, glass cleaners)
Other given operational conditions at	
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Laundry and dish washing products
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Cleaners, liquids (all purpose cleaners, sanitary products, floor
	cleaners, glass cleaners, carpet cleaners, metal cleaners)
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Cleaners, trigger sprays (all purpose cleaners, sanitary
Remains	products, glass cleaners)
Use frequency	: 365 days/year
Remarks	: Laundry and dish washing products
Use frequency	: 128 days/year
Remarks	: Cleaners, liquids (all purpose cleaners, sanitary products, floor
	cleaners, glass cleaners, carpet cleaners, metal cleaners)
Use frequency	: 128 days/year
Remarks	: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)
Conditions and measures related to r	protection of consumer (e.g. behavioral advice, personal
protection and hygiene)	
Remarks	: No specific Risk Management Measures identified beyond those Operational Conditions stated.
	ing consumer exposure for: PC9a: Coatings and
paints, thinners, paint removers	
Product characteristics	
Concentration of the Substance in	·
Mixture/Article	
Remarks	Waterborne latex wall paint
Concentration of the Substance in	·
Mixture/Article	
	Columnt rich binh colid water being as 's'
Remarks	Solvent rich, high solid, water borne paint
Concentration of the O later and	
Concentration of the Substance in	:
Mixture/Article	
Pomarke	A orocol corray can

Aerosol spray can

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Remarks

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Version 1.13	Revision Date 2022-11-1
Concentration of the Substance in	:
Mixture/Article	
Remarks	Removers (paint-, glue-, wall paper-, sealant-remover)
Mount used	0700 -
Remarks	: 2760 g : Waterborne latex wall paint
Remarks	: 744 g
Remarks	: Solvent rich, high solid, water borne paint
Romanie	: 215 g
Remarks	: Aerosol spray can
	: 491 g
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
requency and duration of use	
Exposure duration	: 2,20 h
Frequency of use	: 1 times/day
Remarks	: Waterborne latex wall paint
Exposure duration	: 2,20 h
Frequency of use	: 1 times/day
Remarks	: Solvent rich, high solid, water borne paint
Exposure duration	: 0,33 h
Frequency of use Remarks	: 1 times/day
	: Aerosol spray can : 2,00 h
Exposure duration Frequency of use	: 1 times/day
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
luman factors not influenced by risl	
Exposed skin area	: Skin
<b>-</b> .	: 428,75 cm2
Remarks	: Waterborne latex wall paint
Exposed skin area	: Skin
Remarks	: 428,75 cm2 : Solvent rich, high solid, water borne paint
Exposed skin area	: Skin
	: 857,50 cm2
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
Other given operational conditions a	ffecting consumers exposure
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Waterborne latex wall paint
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Solvent rich, high solid, water borne paint
Outdoor / Indoor	: Garage
Room size	: 34 M3
Ventilation rate per hour Remarks	: 1,5 : Aerosol spray can
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
Use frequency	: 4 days/year
Remarks	: Waterborne latex wall paint

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Use frequency	: 6 days/year
Remarks	: Solvent rich, high solid, water borne paint
Use frequency	: 2 days/year
Remarks	
	: Aerosol spray can
Use frequency	: 3 days/year
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
	protection of consumer (e.g. behavioral advice, personal
protection and hygiene) Remarks	: No specific Risk Management Measures identified beyond
	those Operational Conditions stated.
•	lling consumer exposure for: PC9b, PC9c: Fillers,
putties, plasters, modelling clay,	Finger paints
Product characteristics	
Concentration of the Substance in	:
Mixture/Article	
Remarks	Fillers and putty
Concentration of the Substance in	:
Mixture/Article	•
Remarks	Plasters and floor equalizers
Concentration of the Substance in	:
Mixture/Article	
Remarks	Modeling Clay
Concentration of the Substance in	
Mixture/Article	•
Remarks	Finger paints
Amount used	
	: 85 g
Remarks	: Fillers and putty
	: 13800 g
Remarks	: Plasters and floor equalizers
	: 1g
Remarks	: Modeling Clay
	: 1,35 g
Remarks	: Finger paints
Frequency and duration of use	
Exposure duration	: 4,00 h
Frequency of use	: 1 times/day
Remarks	
	: Fillers and putty
Exposure duration	: 2,00 h
Frequency of use	: 1 times/day
Remarks	: Plasters and floor equalizers
Human factors not influenced by ris	k management
Exposed skin area	: Skin
1	: 35,73 cm2
Remarks	: Fillers and putty
	: Skin
Exposed skin area	
Remarks	: 857,50 cm2 : Plasters and floor equalizers
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Exposed skin area	: Skin
	: 254,40 cm2
Remarks	: Modeling Clay
Exposed skin area	: Skin
- ·	: 254,40 cm2
Remarks	: Finger paints
Other given operational conditions	offecting consumers exposure
Outdoor / Indoor	
	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Fillers and putty
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Plasters and floor equalizers
	'
Use frequency	: 12 days/year
Remarks	: Fillers and putty
Use frequency	: 12 days/year
Remarks	: Plasters and floor equalizers
Use frequency	: 365 days/year
Remarks	: Modeling Clay
Use frequency	: 365 days/year
Remarks	: Finger paints
protection and hygiene) Remarks	: No specific Risk Management Measures identified beyond those Operational Conditions stated.
Remarks	
Remarks 2.2 Contributing scenario contro greases, release products	those Operational Conditions stated.
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics	those Operational Conditions stated.
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in	those Operational Conditions stated.
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics	those Operational Conditions stated.
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in	those Operational Conditions stated.
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks	those Operational Conditions stated. Iling consumer exposure for: PC24: Lubricants,
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in	those Operational Conditions stated. Iling consumer exposure for: PC24: Lubricants,
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article	those Operational Conditions stated.  Iling consumer exposure for: PC24: Lubricants,  Liquid
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in	those Operational Conditions stated. Iling consumer exposure for: PC24: Lubricants,
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	those Operational Conditions stated.  Illing consumer exposure for: PC24: Lubricants,  Liquid Paste Paste
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in	those Operational Conditions stated.  Iling consumer exposure for: PC24: Lubricants,  Liquid
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article	those Operational Conditions stated.  Illing consumer exposure for: PC24: Lubricants,  Liquid  Paste  .
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in	those Operational Conditions stated.  Illing consumer exposure for: PC24: Lubricants,  Liquid Paste Paste
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article	those Operational Conditions stated.  Illing consumer exposure for: PC24: Lubricants,  Liquid  Paste  .
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	those Operational Conditions stated.  Illing consumer exposure for: PC24: Lubricants,  Liquid  Paste  .
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	those Operational Conditions stated.  Iling consumer exposure for: PC24: Lubricants,  Liquid  Paste Sprays
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used	those Operational Conditions stated.  Iling consumer exposure for: PC24: Lubricants,  Liquid  Paste  Sprays  2200 g
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	those Operational Conditions stated.  Iling consumer exposure for: PC24: Lubricants,  Liquid  Paste Paste Sprays 2200 g Liquid
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks	those Operational Conditions stated.  Iling consumer exposure for: PC24: Lubricants,  Liquid  Paste  Sprays  2200 g Liquid 34 g
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used	those Operational Conditions stated.  Iling consumer exposure for: PC24: Lubricants,  Liquid  Paste  Sprays  2200 g Liquid 34 g Paste
Remarks  2.2 Contributing scenario contro greases, release products  Product characteristics  Concentration of the Substance in Mixture/Article Remarks  Concentration of the Substance in Mixture/Article Remarks  Concentration of the Substance in Mixture/Article Remarks  Amount used Remarks Remarks	those Operational Conditions stated.  Illing consumer exposure for: PC24: Lubricants,  Liquid  Paste  Sprays  2200 g Liquid 34 g Paste 73 g
Remarks 2.2 Contributing scenario contro greases, release products Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks	those Operational Conditions stated.  Iling consumer exposure for: PC24: Lubricants,  Liquid  Paste  Sprays  2200 g Liquid 34 g Paste
Remarks         2.2 Contributing scenario controgreases, release products         Product characteristics         Concentration of the Substance in Mixture/Article         Remarks         Amount used         Remarks         Remarks         Remarks         Remarks         Remarks         Remarks         Remarks         Remarks	those Operational Conditions stated.  Illing consumer exposure for: PC24: Lubricants,  Liquid  Paste  Sprays  2200 g Liquid 34 g Paste 73 g
Remarks         2.2 Contributing scenario controgreases, release products         Product characteristics         Concentration of the Substance in Mixture/Article         Remarks         Amount used         Remarks         Remarks	those Operational Conditions stated.  Iling consumer exposure for: PC24: Lubricants,  Liquid  Paste Sprays  2200 g Liquid 34 g Paste 73 g Sprays
Remarks  2.2 Contributing scenario contro greases, release products  Product characteristics  Concentration of the Substance in Mixture/Article Remarks  Concentration of the Substance in Mixture/Article Remarks  Concentration of the Substance in Mixture/Article Remarks  Amount used Remarks Remarks	those Operational Conditions stated.  Illing consumer exposure for: PC24: Lubricants,  Liquid  Paste  Sprays  2200 g Liquid 34 g Paste 73 g

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Frequency of use	: 1 times/day
Remarks	: Liquid
Frequency of use	: 1 times/day
Remarks	: Paste
Exposure duration	: 0,17 h
Frequency of use	: 1 times/day
Remarks	: Sprays
Human factors not influenced by riv	sk monogoment
Human factors not influenced by ris Exposed skin area	: Skin
Exposed skill alea	
	: 468 cm2
Remarks	: Liquid
Exposed skin area	: Skin
	: 468 cm2
Remarks	: Paste
	: Skin
Exposed skin area	-
	: 428,75 cm2
Remarks	: Sprays
Other given operational conditions	affecting consumers exposure
Outdoor / Indoor	: Indoor activities
Room size	: 34 M3
Ventilation rate per hour	: 0,6
Remarks	: Liquid
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Sprays
Use frequency	: 4 days/year
Remarks	: Liquid
Use frequency	: 10 days/year
Remarks	: Paste
Use frequency	: 6 days/year
Remarks	: Sprays
Nonaino	
	protection of consumer (e.g. behavioral advice personal
Conditions and measures related to	protection of consumer (e.g. behavioral advice, personal
Conditions and measures related to protection and hygiene)	
Conditions and measures related to	: No specific Risk Management Measures identified beyond
Conditions and measures related to protection and hygiene)	
Conditions and measures related to protection and hygiene)	: No specific Risk Management Measures identified beyond
Conditions and measures related to protection and hygiene) Remarks	: No specific Risk Management Measures identified beyond those Operational Conditions stated.
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro	: No specific Risk Management Measures identified beyond those Operational Conditions stated.
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> <li>Ining consumer exposure for: PC35, PC38: Washing and livent based products), Welding and soldering products</li> </ul>
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> <li>Ining consumer exposure for: PC35, PC38: Washing and livent based products), Welding and soldering products</li> </ul>
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol (with flux coatings or flux cores.	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> <li>Ining consumer exposure for: PC35, PC38: Washing and livent based products), Welding and soldering products</li> </ul>
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol (with flux coatings or flux cores.	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> <li>Ining consumer exposure for: PC35, PC38: Washing and livent based products), Welding and soldering products</li> </ul>
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol (with flux coatings or flux cores. Product characteristics Concentration of the Substance in	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> <li>Ining consumer exposure for: PC35, PC38: Washing and livent based products), Welding and soldering products</li> </ul>
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol with flux coatings or flux cores. Product characteristics Concentration of the Substance in Mixture/Article	No specific Risk Management Measures identified beyond those Operational Conditions stated.      Delling consumer exposure for: PC35, PC38: Washing and livent based products), Welding and soldering products ), flux products
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol with flux coatings or flux cores. Product characteristics Concentration of the Substance in	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> <li>Ining consumer exposure for: PC35, PC38: Washing and livent based products), Welding and soldering products</li> </ul>
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol with flux coatings or flux cores. Product characteristics Concentration of the Substance in Mixture/Article	No specific Risk Management Measures identified beyond those Operational Conditions stated.      Delling consumer exposure for: PC35, PC38: Washing and livent based products), Welding and soldering products ), flux products
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol with flux coatings or flux cores. Product characteristics Concentration of the Substance in Mixture/Article Remarks	No specific Risk Management Measures identified beyond those Operational Conditions stated.      Delling consumer exposure for: PC35, PC38: Washing and livent based products), Welding and soldering products ), flux products
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol with flux coatings or flux cores. Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in	No specific Risk Management Measures identified beyond those Operational Conditions stated.      Delling consumer exposure for: PC35, PC38: Washing and livent based products), Welding and soldering products ), flux products
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro- cleaning products (including sol with flux coatings or flux cores. Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article	No specific Risk Management Measures identified beyond those Operational Conditions stated.  Illing consumer exposure for: PC35, PC38: Washing and lyent based products), Welding and soldering products ), flux products  Laundry and dish washing products
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro- cleaning products (including sol with flux coatings or flux cores. Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> <li>Ining consumer exposure for: PC35, PC38: Washing and lowent based products), Welding and soldering products ), flux products</li> <li>Laundry and dish washing products</li> <li>Cleaners, liquids (all purpose cleaners, sanitary products, floce</li> </ul>
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro- cleaning products (including sol with flux coatings or flux cores. Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article	No specific Risk Management Measures identified beyond those Operational Conditions stated.  Illing consumer exposure for: PC35, PC38: Washing and lvent based products), Welding and soldering products ), flux products  Laundry and dish washing products
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol (with flux coatings or flux cores. Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> <li>Ining consumer exposure for: PC35, PC38: Washing and lowent based products), Welding and soldering products ), flux products</li> <li>Laundry and dish washing products</li> <li>Cleaners, liquids (all purpose cleaners, sanitary products, floce</li> </ul>
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol (with flux coatings or flux cores.) Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> <li>Ining consumer exposure for: PC35, PC38: Washing and lowent based products), Welding and soldering products ), flux products</li> <li>Laundry and dish washing products</li> <li>Cleaners, liquids (all purpose cleaners, sanitary products, floce</li> </ul>
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol (with flux coatings or flux cores. Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> <li>Ining consumer exposure for: PC35, PC38: Washing and lowent based products), Welding and soldering products ), flux products</li> <li>Laundry and dish washing products</li> <li>Cleaners, liquids (all purpose cleaners, sanitary products, floor</li> </ul>
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol (with flux coatings or flux cores. Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> <li>Ining consumer exposure for: PC35, PC38: Washing and livent based products), Welding and soldering products</li> <li>, flux products</li> <li>Laundry and dish washing products</li> <li>Cleaners, liquids (all purpose cleaners, sanitary products, floo cleaners, glass cleaners, carpet cleaners, metal cleaners)</li> </ul>
Conditions and measures related to protection and hygiene) Remarks 2.2 Contributing scenario contro cleaning products (including sol (with flux coatings or flux cores. Product characteristics Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> <li>Dlling consumer exposure for: PC35, PC38: Washing and lvent based products), Welding and soldering products ), flux products</li> <li>Laundry and dish washing products</li> <li>Cleaners, liquids (all purpose cleaners, sanitary products, floo</li> </ul>

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	products, glass cleaners)
Concentration of the Output	
Concentration of the Substance in	:
Mixture/Article	
Remarks	Welding and soldering products (with flux coatings or flux
	cores.), flux products
Amount used	
	: 15 g
Remarks	: Laundry and dish washing products
	: 27 g
Remarks	: Cleaners, liquids (all purpose cleaners, sanitary products, floor
	cleaners, glass cleaners, carpet cleaners, metal cleaners)
Demesius	: 35 g
Remarks	: Cleaners, trigger sprays (all purpose cleaners, sanitary
	products, glass cleaners)
Domorko	: 12 g
Remarks	: Welding and soldering products (with flux coatings or flux cores.), flux products
	cores.), hux products
Frequency and duration of use	
Exposure duration	: 0,50 h
Frequency of use	: 1 times/day
Remarks	: Laundry and dish washing products
Exposure duration	: 0,33 h
Frequency of use	: 1 times/day
Remarks	: Cleaners, liquids (all purpose cleaners, sanitary products, floor
	cleaners, glass cleaners, carpet cleaners, metal cleaners)
Exposure duration	: 0,17 h
Frequency of use	: 1 times/day
Remarks	: Cleaners, trigger sprays (all purpose cleaners, sanitary
	products, glass cleaners)
Exposure duration	: 1 h
Frequency of use	: 1 times/day
Remarks	: Welding and soldering products (with flux coatings or flux cores.), flux products
Human factors not influenced by ris	
Human factors not influenced by ris Exposed skin area	: Skin
Exposed skill alea	: 857,50 cm2
Remarks	: Laundry and dish washing products
Exposed skin area	: Skin
	: 857,50 cm2
Remarks	: Cleaners, liquids (all purpose cleaners, sanitary products, floor
Komano	cleaners, glass cleaners, carpet cleaners, metal cleaners)
Exposed skin area	: Skin
	: 428,00 cm2
Remarks	: Cleaners, trigger sprays (all purpose cleaners, sanitary
	products, glass cleaners)
	·
Other given operational conditions a	
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour Remarks	: 0,6
Outdoor / Indoor	: Laundry and dish washing products
Room size	: Indoor activities : 20 M3
	: 0,6
Ventilation rate per hour Remarks	
	: Cleaners, liquids (all purpose cleaners, sanitary products, floor
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Outdoor / Indoor Room size Ventilation rate per hour	<ul> <li>cleaners, glass cleaners, carpet cleaners, metal cleaners)</li> <li>Indoor activities</li> <li>20 M3</li> <li>0,6</li> </ul>
Remarks	<ul> <li>Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)</li> </ul>
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Welding and soldering products (with flux coatings or flux cores.), flux products
Use frequency	: 365 days/year
Remarks	: Laundry and dish washing products
Use frequency	: 128 days/year
Remarks	: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)
Use frequency	: 128 days/year
Remarks	: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)
Use frequency	: 365 days/year
Remarks	: Washing and cleaning products (including solvent based products)

# Conditions and measures related to protection of consumer (e.g. behavioral advice, personal protection and hygiene)

Remarks

: No specific Risk Management Measures identified beyond those Operational Conditions stated.

#### 3. Exposure estimation and reference to its source

#### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
ERC8a, ERC8d	Hydrocarbon Block Method with Petrorisk		Air		0,000074 mg/m3	
			Freshwater		0,0000064 mg/L	0,00017
			Freshwater sediment		0,00013 mg/kg	0,000091
			Marine water		0,0000001 mg/L	0,00003
			Marine sediment		0,0000055 mg/kg	0,000004
			Agricultural soil		0,000023 mg/kg	0,00004

ERC8a: Wide dispersive indoor use of processing aids in open systems ERC8d: Wide dispersive outdoor use of processing aids in open systems

#### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):	
PC3, PC3_1	ECETOC TRA Modified		Consumer – dermal, long-term – systemic	0,00 mg/kg/d	0,00	
			Consumer – oral, long-	0,00 mg/kg/d	0,00	
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		term – systemic		
		Consumer – inhalation, long-term – systemic	0,10 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,00
PC3, PC3_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	0,00 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,02 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,00
PC4, PC4_1	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	0,00 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,00 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,00
PC4, PC4_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	7,13 mg/kg/d	0,01
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,18 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,01
PC4, PC4_3	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	17,87 mg/kg/d	0,03
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,51 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,03
PC8, PC8_1	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	0,07 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,07 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,00
PC8, PC8_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	7,15 mg/kg/d	0,01
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,08 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,01
PC8, PC8_3	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	10,70 mg/kg/d	0,02
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term –	1,77 mg/m3	0,00
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PC9c	ECETOC TRA Modified	routes Consumer – dermal, long-term – systemic	127,20 mg/kg/d	0,18
		term – systemic Consumer – long-term – systemic Combined		0,01
	Modified	long-term – systemic Consumer – oral, long-	1,00 mg/kg/d	0,00
PC9b, PC9b_3	ECETOC TRA	- systemic Combined routes Consumer - dermal,	2,54 mg/kg/d	0,00
		inhalation, long-term – systemic Consumer – long-term		0,11
		term – systemic Consumer – inhalation long-term –	66,97 mg/m3	0,11
		Consumer – oral, long-	0,00 mg/kg/d	0,00
PC9b, PC9b_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	2,86 mg/kg/d	0,00
		Consumer – long-term – systemic Combined		0,00
		term – systemic Consumer – inhalation, long-term –	0,54 mg/m3	0,00
	Modified	long-term – systemic Consumer – oral, long-	0,00 mg/kg/d	0,00
PC9b, PC9b_1	ECETOC TRA	routes Consumer – dermal,	0,12 mg/kg/d	0,00
		systemic Consumer – long-term – systemic Combined		0,20
		Consumer – inhalation, long-term –	59,57 mg/m3	0,10
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
PC9a, PC9a_4	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	71,46 mg/kg/d	0,10
		Consumer – long-term – systemic Combined routes		0,06
		Consumer – inhalation, long-term – systemic	34,29 mg/m3	0,06
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
PC9a, PC9a_3	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	0,00 mg/kg/d	0,00
		Consumer – long-term – systemic Combined routes		0,11
		Consumer – inhalation, long-term – systemic	52,06 mg/m3	0,09
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
PC9a, PC9a_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	19,65 mg/kg/d	0,03
		Consumer – long-term – systemic Combined routes		0,02
		Consumer – inhalation, long-term – systemic	10,53 mg/m3	0,02
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
PC9a, PC9a_1	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	1,07 mg/kg/d	0,00
		Consumer – long-term – systemic Combined routes		0,02

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		Consumer – oral, long-	67,50 mg/kg/d	0,10
		term – systemic	07,50 mg/kg/u	
		Consumer – long-term – systemic Combined routes		0,28
PC24, PC24_1	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	78,00 mg/kg/d	0,11
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,40 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,11
PC24, PC24_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	15,60 mg/kg/d	0,02
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – long-term – systemic Combined routes		0,02
PC24, PC24_3	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	35,73 mg/kg/d	0,05
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	12,29 mg/m3	0,02
		Consumer – long-term – systemic Combined routes		0,07
PC35, PC35_1	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	0,07 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,07 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,00
PC35, PC35_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	7,15 mg/kg/d	0,01
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,08 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,01
PC35, PC35_3	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	10,70 mg/kg/d	0,02
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	1,77 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,02
PC38	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	0,00 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,38 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,00

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PC3: Air care products PC3\_1: Air care, instant action (aerosol sprays)

PC3: Air care products PC3\_2: Air care, continuous action (solid and liquid)

PC4: Anti-Freeze and de-icing products PC4\_1: Washing car window

PC4: Anti-Freeze and de-icing products PC4\_2: Pouring into radiator

PC4: Anti-Freeze and de-icing products PC4\_3: Lock de- icer

PC8: Biocidal products (e.g. Disinfectants, pest control) PC8\_1: Laundry and dish washing products

PC8: Biocidal products (e.g. Disinfectants, pest control) PC8\_2: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)

PC8: Biocidal products (e.g. Disinfectants, pest control) PC8\_3: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)

PC9a: Coatings and paints, thinners, paint removers PC9a\_1: Waterborne latex wall paint

PC9a: Coatings and paints, thinners, paint removers PC9a\_2: Solvent rich, high solid, water borne paint

PC9a: Coatings and paints, thinners, paint removers PC9a\_3: Aerosol spray can

PC9a: Coatings and paints, thinners, paint removers PC9a\_4: Removers (paint-, glue-, wall paper-, sealant-remover)

PC9b: Fillers, putties, plasters, modelling clay PC9b\_1: Fillers and putty

PC9b: Fillers, putties, plasters, modelling clay PC9b\_2: Plasters and floor equalizers

PC9b: Fillers, putties, plasters, modelling clay PC9b\_3: Modeling Clay

PC9c: Finger paints

PC24: Lubricants, greases, release products PC24\_1: Liquid

PC24: Lubricants, greases, release products PC24\_2: Paste

PC24: Lubricants, greases, release products PC24\_3: Sprays

PC35: Washing and cleaning products (including solvent based products) PC35\_1: Laundry and dish washing products

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PC35: Washing and cleaning products (including solvent based products) PC35\_2: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)

PC35: Washing and cleaning products (including solvent based products) PC35\_3: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)

PC38: Welding and soldering products (with flux coatings or flux cores.), flux products

# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

#### 1. Short title of Exposure Scenario: Use in Coatings - Consumer

Main User Groups	: <b>SU 21:</b> Consumer uses: Private households (= general public = consumers)
Sector of use	: <b>SU 21:</b> Consumer uses: Private households (= general public = consumers)
Product category	<ul> <li>PC1: Adhesives, sealants</li> <li>PC4: Anti-Freeze and de-icing products</li> <li>PC8: Biocidal products (e.g. Disinfectants, pest control)</li> <li>PC9a: Coatings and paints, thinners, paint removers</li> <li>PC9b: Fillers, putties, plasters, modelling clay</li> <li>PC9c: Finger paints</li> <li>PC15: Non-metal-surface treatment products</li> <li>PC18: Ink and toners</li> <li>PC23: Leather tanning, dye, finishing, impregnation and care products</li> <li>PC34: Lubricants, greases, release products</li> <li>PC34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> </ul>
Environmental release category	: <b>ERC8a, ERC8d:</b> Wide dispersive indoor use of processing aids in open systems, Wide dispersive outdoor use of processing aids in open systems
Further information	:
	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.
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	lling environmental exposure for:ERC8a, ERC8d: Wide ing aids in open systems, Wide dispersive outdoor use ms
Product characteristics Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d): (Msafe)	: 1.000
Environment factors not influenced	
Flow rate	: 18.000 m3/d
Dilution Factor (River) Dilution Factor (Coastal Areas)	: 10 : 100
Other given operational conditions a	
Continuous use/release	anecting environmental exposure
Number of emission days per year	: 365
Emission or Release Factor: Air	
Emission or Release Factor: Water	: 1%
Emission or Release Factor: Soil	: 6%
Technical conditions and measures Remarks	/ Organizational measures : Not applicable
Conditions and measures related to	municipal sewage treatment plant
Type of Sewage Treatment Plant Flow rate of sewage treatment	: Municipal sewage treatment plant
plant effluent Percentage removed from waste water	: 96,3 %
Sludge Treatment Procedures to limit air emissions from Sewage Treatment Plant	<ul><li>No data available</li><li>No data available</li></ul>
Conditions and measures related to Waste treatment Conditions and measures related to Recovery Methods	<ul> <li>external treatment of waste for disposal</li> <li>External treatment and disposal of waste should comply with applicable local and/or national regulations.</li> <li>external recovery of waste</li> <li>External recovery and recycling of waste should comply with applicable local and/or national regulations.</li> </ul>
PC9b, PC15, PC9c, PC18, PC23, F de-icing products, Biocidal products, Biocidal products, biocidal products, Fing finishing, impregnation and care Polishes and wax blends, Textile bleaches and other processing a Product characteristics Physical Form (at time of use)	lling consumer exposure for: PC1, PC4, PC8, PC9a, PC24, PC31, PC34: Adhesives, sealants, Anti-Freeze and ucts (e.g. Disinfectants, pest control), Coatings and Fillers, putties, plasters, modelling clay, Non-metal- er paints, Ink and toners, Leather tanning, dye, products, Lubricants, greases, release products, dyes, finishing and impregnating products; including ids
Amount used	
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Varaian 1.12	D. Blends 80-98
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	: 13800 g
Frequency and duration of use	
Exposure duration	: 6 h
Frequency of use	: 1 times/day
Human factors not influenced by ris	k management
Exposed skin area	: Skin
	: 857,5 cm2
Other given operational conditions	affecting consumers exposure
Room size	: 20 M3
Remarks	: Unless otherwise stated assumes use at ambient
Komano	temperatures, Assumes use with typical ventilation.
Conditions and measures related to protection and hygiene)	protection of consumer (e.g. behavioral advice, personal
Remarks	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> </ul>
2.2 Contributing scenario contro	Iling consumer exposure for: PC1: Adhesives, sealants
Product characteristics	
Concentration of the Substance in	:
Mixture/Article	
Remarks	Glues, hobby use
Concentration of the Substance in	
Mixture/Article	
Remarks	Glues DIY -use (carpet glue, tile glue, wood parquet glue)
Concentration of the Substance in	
Concentration of the Substance in	•
Mixture/Article	
Remarks	Glue from spray
Concentration of the Substance in	:
Mixture/Article	
Remarks	Sealants
Amount used	
Deved	: 9 g
Remarks	: Glues, hobby use : 6390 g
Remarks	: Glues DIY -use (carpet glue, tile glue, wood parquet glue)
Remarks	: 85,05 g : Glue from spray
Remains	: 75 g
Remarks	: Sealants
Frequency and duration of use	
Exposure duration	: 4,00 h
Frequency of use	: 1 times/day
Remarks	: Glues, hobby use
Exposure duration	: 6,00 h
Frequency of use	: 1 times/day
	: Glues DIY -use (carpet glue, tile glue, wood parquet glue)
Remarks	

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version 1.13	Revision Date 2022-11-17
Exposure duration	: 4,00 h
Frequency of use	: 1 times/day
Remarks	: Glue from spray
Exposure duration	: 1,00 h
Frequency of use	: 1 times/day
Remarks	: Sealants
Human factors not influenced by	
Exposed skin area	: Skin
	: 35,73 cm2
Remarks	: Glues, hobby use
Exposed skin area	: Skin
	: 110,00 cm2
Remarks	: Glues DIY -use (carpet glue, tile glue, wood parquet glue)
Exposed skin area	: Skin
	: 35,73 cm2
Remarks	: Glue from spray
Exposed skin area	: Skin
	: 35,73 cm2
Remarks	: Sealants
- · ·	ns affecting consumers exposure
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Glues, hobby use
Outdoor / Indoor	: Indoor activities : 20 M3
Room size	
Ventilation rate per hour	: 0,6
Remarks	<ul> <li>Glues DIY -use (carpet glue, tile glue, wood parquet glue)</li> <li>Indoor activities</li> </ul>
Outdoor / Indoor	: 20 M3
Room size	
Ventilation rate per hour	: 0,6
Remarks	: Glue from spray
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6 · Socienta
Remarks	: Sealants
Use frequency	: 365 days/year
Remarks	: Glues, hobby use
Use frequency	: 1 days/year
Remarks	: Glues DIY -use (carpet glue, tile glue, wood parquet glue)
Use frequency	: 6 days/year
Remarks	: Glue from spray
Use frequency	: 365 days/year
Remarks	: Sealants
	to protection of consumer (e.g. behavioral advice, personal
protection and hygiene)	
Remarks	: No specific Risk Management Measures identified beyond
	those Operational Conditions stated.
	trolling consumer exposure for: PC4: Anti-Freeze and de-
icing products	
Product characteristics	
Concentration of the Substance i	n :
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Mixture/Article		
Remarks	Washing car window	
Concentration of the Substance in		
Mixture/Article		
Remarks	Pouring into radiator	
	0	
Concentration of the Substance in	:	
Mixture/Article	Look do loor	
Remarks	Lock de- icer	
Amount used	: 0,5 g	
Remarks	: Washing car window	
Kemano	: 2000 g	
Remarks	: Pouring into radiator	
	: 4 g	
Remarks	: Lock de- icer	
Frequency and duration of use		
Frequency and duration of use Exposure duration	: 0,02 h	
Frequency of use	: 1 times/day	
Remarks	: Washing car window	
Exposure duration	: 0,17 h	
Frequency of use	: 1 times/day	
Remarks	: Pouring into radiator	
Exposure duration	: 0,25 h	
Frequency of use	: 1 times/day	
Remarks	: Lock de- icer	
Human factors not influenced by ris	k management	
Exposed skin area	: Skin	
	: 428,00 cm2	
Remarks	: Pouring into radiator	
Exposed skin area	: Skin	
Deved	: 214,40 cm2	
Remarks	: Lock de- icer	
Other given operational conditions	affecting consumers exposure	
Outdoor / Indoor	: Garage	
Room size	: 34 M3	
Ventilation rate per hour	: 1,5	
Remarks	: Washing car window	
Outdoor / Indoor	:Garage :34 M3	
Room size Ventilation rate per hour	: 34 M3 : 1,5	
Remarks	: Pouring into radiator	
Outdoor / Indoor	: Garage	
Room size	: 34 M3	
Ventilation rate per hour	: 1,5	
Remarks	: Lock de- icer	
Use frequency Remarks	: 365 days/year : Washing car window	
Use frequency	: 365 days/year	
Remarks	: Pouring into radiator	
Use frequency	: 365 days/year	
Remarks	: Lock de- icer	
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Remarks	: No specific Risk Management Measures identified beyond those Operational Conditions stated.
2.2 Contributing scenario control (e.g. Disinfectants, pest control)	ling consumer exposure for: PC8: Biocidal products
Product characteristics	
Concentration of the Substance in	:
Mixture/Article	
Remarks	Laundry and dish washing products
Concentration of the Substance in Mixture/Article	:
Remarks	Cleaners, liquids (all purpose cleaners, sanitary products, floo cleaners, glass cleaners, carpet cleaners, metal cleaners)
Concentration of the Substance in	:
Mixture/Article	
Remarks	Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)
Amount used	
Remarks	: 15 g
Remarks	: Laundry and dish washing products : 27 g
Remarks	<ul> <li>27 g</li> <li>Cleaners, liquids (all purpose cleaners, sanitary products, floo cleaners, glass cleaners, carpet cleaners, metal cleaners)</li> <li>35 g</li> </ul>
Remarks	<ul> <li>Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)</li> </ul>
Frequency and duration of use	
Exposure duration	: 0,50 h
Frequency of use	: 1 times/day
Remarks	: Laundry and dish washing products
Exposure duration	: 0,33 h
Frequency of use	: 1 times/day
Remarks	: Cleaners, liquids (all purpose cleaners, sanitary products, floo cleaners, glass cleaners, carpet cleaners, metal cleaners)
Exposure duration	: 0,17 h
Frequency of use	: 1 times/day
Remarks	: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)
Human factors not influenced by ris Exposed skin area	<b>k management</b> : Skin
Exposed skill alea	: 857,50 cm2
Remarks	: Laundry and dish washing products
Exposed skin area	: Skin
	: 857,50 cm2
Remarks	<ul> <li>Cleaners, liquids (all purpose cleaners, sanitary products, floo cleaners, glass cleaners, carpet cleaners, metal cleaners)</li> </ul>
Exposed skin area	: Skin
Demerler	: 428,00 cm2
Remarks	: Cleaners, trigger sprays (all purpose cleaners, sanitary

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SAFETY DATA SHEET

	products, glass cleaners)
Other given operational conditions a	
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Laundry and dish washing products
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	<ul> <li>Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners)</li> <li>Indoor activities</li> </ul>
Outdoor / Indoor Room size	: 20 M3
	: 0,6
Ventilation rate per hour Remarks	,
Remarks	: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners)
Use frequency	: 365 days/year
Remarks	: Laundry and dish washing products
Use frequency	: 128 days/year
Remarks	: Cleaners, liquids (all purpose cleaners, sanitary products, floor
	cleaners, glass cleaners, carpet cleaners, metal cleaners)
Use frequency	: 128 days/year
Remarks	: Cleaners, trigger sprays (all purpose cleaners, sanitary
	products, glass cleaners)
Remarks	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> </ul>
2.2 Contributing scenario contro paints, thinners, paint removers	lling consumer exposure for: PC9a: Coatings and
Product characteristics	
Concentration of the Substance in	:
Mixture/Article	
Remarks	Waterborne latex wall paint
	·
Concentration of the Substance in	:
Mixture/Article	
Remarks	Solvent rich, high solid, water borne paint
Concentration of the Substance in	:
Mixture/Article	
Remarks	Aerosol spray can
Concentration of the Substance in	:
Mixture/Article	
Remarks	Removers (paint-, glue-, wall paper-, sealant-remover)
Amount used	
	: 2760 g
Remarks	: Waterborne latex wall paint
	: Waterborne latex wall paint : 744 g
Remarks Remarks	: Waterborne latex wall paint
	: Waterborne latex wall paint : 744 g

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	: 215 g
Remarks	: Aerosol spray can
	: 491 g
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
Frequency and duration of use	
Exposure duration	: 2,20 h
Frequency of use	: 1 times/day
Remarks	: Waterborne latex wall paint
Exposure duration	: 2,20 h
Frequency of use	: 1 times/day
Remarks	: Solvent rich, high solid, water borne paint
Exposure duration	: 0,33 h
Frequency of use	: 1 times/day
Remarks	: Aerosol spray can
Exposure duration	: 2,00 h
Frequency of use	: 1 times/day
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
Human factors not influenced by	risk management
Exposed skin area	: Skin
	: 428,75 cm2
Remarks	: Waterborne latex wall paint
Exposed skin area	: Skin
	: 428,75 cm2
Remarks	: Solvent rich, high solid, water borne paint
Exposed skin area	: Skin
-	: 857,50 cm2
Remarks	: Aerosol spray can
Other given operational condition	ns affecting consumers exposure
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Waterborne latex wall paint
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Solvent rich, high solid, water borne paint
Outdoor / Indoor	: Garage
Room size	: 34 M3
Ventilation rate per hour	: 1,5
Remarks	: Aerosol spray can
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
Use frequency	: 4 days/year
Remarks	: Waterborne latex wall paint
Use frequency	: 6 days/year
Remarks	: Solvent rich, high solid, water borne paint
Use frequency	: 2 days/year
Remarks	: Aerosol spray can
Use frequency	: 3 days/year
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
Conditions and measures related	I to protection of consumer (e.g. behavioral advice, personal
protection and hygiene)	
	No an action Diale Management Management identified become
Remarks	: No specific Risk Management Measures identified beyond

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those Operational Conditions stated.

Product characteristics	
	:
Mixture/Article	
Remarks	Fillers and putty
Concentration of the Substance in	:
Mixture/Article	
Remarks	Plasters and floor equalizers
Concentration of the Substance in	
Mixture/Article	
Remarks	Modeling Clay
Nemains	wouching Glay
Concentration of the Substance in	:
Mixture/Article	
Remarks	Finger paints
mount used	
Amount used	: 85 g
Remarks	: Fillers and putty
	: 13800 g
Remarks	: Plasters and floor equalizers
	: 1 g
Remarks	: Modeling Clay
	: 1,35 g
Remarks	: Finger paints
Frequency and duration of use	
Exposure duration	: 4,00 h
Frequency of use	: 1 times/day
Remarks	: Fillers and putty
Exposure duration	: 2,00 h
Frequency of use	: 1 times/day
Remarks	: Plasters and floor equalizers
Frequency of use	: 1 times/day
Remarks	: Modeling Clay
Frequency of use	: 1 times/day
Remarks	: Finger paints
luman factors not influenced by risl	s management
Exposed skin area	: Skin
	: 35,73 cm2
Remarks	: Fillers and putty
Exposed skin area	: Skin
Exposed shirldrea	: 857,50 cm2
Remarks	: Plasters and floor equalizers
Exposed skin area	: Skin
•	: 254,40 cm2
Remarks	: Modeling Clay
Exposed skin area	: Skin
	: 254,40 cm2
Remarks	: Finger paints
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Other given energtional conditions	
	affecting consumers exposure
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Fillers and putty
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Plasters and floor equalizers
Use frequency	: 12 days/year
Remarks	: Fillers and putty
Use frequency	: 12 days/year
Remarks	: Plasters and floor equalizers
Use frequency	: 365 days/year
Remarks	: Modeling Clay
Use frequency	: 365 days/year
Remarks	: Finger paints
Remains	
Conditions and measures related to protection and hygiene)	protection of consumer (e.g. behavioral advice, personal
Remarks	: No specific Risk Management Measures identified beyond
Remarks	those Operational Conditions stated.
	those Operational Conditions stated.
2.2 Contributing scenario contro	Iling consumer exposure for: PC15: Non-metal-surface
treatment products	
Product characteristics	
Concentration of the Substance in	
Mixture/Article	
Remarks	Waterborne latex wall paint
Concentration of the Substance in	
Concentration of the Substance in	:
Mixture/Article	:
	: Solvent rich, high solid, water borne paint
Mixture/Article Remarks	: Solvent rich, high solid, water borne paint
Mixture/Article	: Solvent rich, high solid, water borne paint
Mixture/Article Remarks	: Solvent rich, high solid, water borne paint
Mixture/Article Remarks Concentration of the Substance in	: Solvent rich, high solid, water borne paint : Aerosol spray can
Mixture/Article Remarks Concentration of the Substance in Mixture/Article	:
Mixture/Article Remarks Concentration of the Substance in Mixture/Article	:
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	:
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in	:
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article	Aerosol spray can
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	Aerosol spray can
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article	Aerosol spray can Removers (paint-, glue-, wall paper-, sealant-remover)
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used	: Aerosol spray can : Removers (paint-, glue-, wall paper-, sealant-remover) : 2760 g
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	<ul> <li>Aerosol spray can</li> <li>Removers (paint-, glue-, wall paper-, sealant-remover)</li> <li>2760 g</li> <li>Waterborne latex wall paint</li> </ul>
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks	Aerosol spray can Removers (paint-, glue-, wall paper-, sealant-remover) 2760 g Waterborne latex wall paint 744 g
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used	Aerosol spray can Removers (paint-, glue-, wall paper-, sealant-remover) 2760 g Waterborne latex wall paint 744 g Solvent rich, high solid, water borne paint
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks Remarks	Aerosol spray can Removers (paint-, glue-, wall paper-, sealant-remover) 2760 g Waterborne latex wall paint 744 g Solvent rich, high solid, water borne paint 215 g
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks	Aerosol spray can Removers (paint-, glue-, wall paper-, sealant-remover) 2760 g Waterborne latex wall paint 744 g Solvent rich, high solid, water borne paint 215 g Aerosol spray can
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks Remarks	Aerosol spray can Removers (paint-, glue-, wall paper-, sealant-remover) 2760 g Waterborne latex wall paint 744 g Solvent rich, high solid, water borne paint 215 g Aerosol spray can 491 g
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks Remarks	Aerosol spray can Removers (paint-, glue-, wall paper-, sealant-remover) 2760 g Waterborne latex wall paint 744 g Solvent rich, high solid, water borne paint 215 g Aerosol spray can
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Remarks Remarks Remarks Remarks Remarks	Aerosol spray can Removers (paint-, glue-, wall paper-, sealant-remover) 2760 g Waterborne latex wall paint 744 g Solvent rich, high solid, water borne paint 215 g Aerosol spray can 491 g
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Remarks Remarks Remarks Remarks Remarks Frequency and duration of use	Aerosol spray can Removers (paint-, glue-, wall paper-, sealant-remover) 2760 g Waterborne latex wall paint 744 g Solvent rich, high solid, water borne paint 215 g Aerosol spray can 491 g Removers (paint-, glue-, wall paper-, sealant-remover)
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks Remarks Remarks	Aerosol spray can Removers (paint-, glue-, wall paper-, sealant-remover) 2760 g Waterborne latex wall paint 744 g Solvent rich, high solid, water borne paint 215 g Aerosol spray can 491 g

# TrusTec<sup>™</sup> PRF Octane No. Blends 80-98

Version 1.13

Version 1.13	Revision Date 2022-11-1
Frequency of use	: 1 times/day
Remarks	: Waterborne latex wall paint
Exposure duration	: 2,20 h
Frequency of use	: 1 times/day
Remarks	: Solvent rich, high solid, water borne paint
Exposure duration	: 0,33 h
Frequency of use	: 1 times/day
Remarks	: Aerosol spray can
Exposure duration	: 2,00 h
Frequency of use	: 1 times/day
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
Human factors not influenced b	y risk management
Exposed skin area	: Skin
	: 428,75 cm2
Remarks	: Waterborne latex wall paint
Exposed skin area	: Skin
	: 428,75 cm2
Remarks	: Solvent rich, high solid, water borne paint
Exposed skin area	: Skin
•	: 857,50 cm2
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
Other given operational condition	ons affecting consumers exposure
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Waterborne latex wall paint
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Solvent rich, high solid, water borne paint
Outdoor / Indoor	: Garage
Room size	: 34 M3
Ventilation rate per hour	: 1,5
Remarks	: Aerosol spray can
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
Use frequency	: 4 days/year
Remarks	: Waterborne latex wall paint
Use frequency	: 6 days/year
Remarks	: Solvent rich, high solid, water borne paint
Use frequency	: 2 days/year
Remarks	: Aerosol spray can
Use frequency	: 3 days/year
Remarks	: Removers (paint-, glue-, wall paper-, sealant-remover)
Conditions and measures relate	ed to protection of consumer (e.g. behavioral advice, personal
protection and hygiene)	
Remarks	: No specific Risk Management Measures identified beyond
	those Operational Conditions stated.
	ntrolling consumer exposure for: PC18, PC23: Ink and
toners, Leather tanning, dye,	finishing, impregnation and care products
SDS Number:100000014260	123/139

# TrusTec™ PRF Octane No. Blends 80-98

Version 1.13

Version 1.13	Revision Date 2022-11-17
Product characteristics	
Concentration of the Substance in	:
Mixture/Article	
Remarks	Ink and toners
Concentration of the Substance in	:
Mixture/Article	
Remarks	Polishes, wax / cream (floor, furniture, shoes)
Concentration of the Substance in	:
Mixture/Article	
Remarks	Polishes, spray (furniture, shoes)
Amount used	
	: 40 g
Remarks	: Ink and toners
	: 56 g
Remarks	: Polishes, wax / cream (floor, furniture, shoes)
	: 56 g
Remarks	: Polishes, spray (furniture, shoes)
Frequency and duration of use	
Exposure duration	: 2,20 h
Frequency of use	: 1 times/day
Remarks	: Ink and toners
Exposure duration	: 1,23 h
Frequency of use	: 1 times/day
Remarks	: Polishes, wax / cream (floor, furniture, shoes)
Exposure duration	: 0,33 h
Frequency of use	: 1 times/day
Remarks	: Polishes, spray (furniture, shoes)
Human factors not influenced by ris	sk management
Exposed skin area	: Skin
	: 71,40 cm2
Remarks	: Ink and toners
Exposed skin area	: Skin
	: 430,00 cm2
Remarks	: Polishes, wax / cream (floor, furniture, shoes)
Exposed skin area	: Skin
	: 430,00 cm2
Remarks	: Polishes, spray (furniture, shoes)
Other given operational conditions	
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Ink and toners
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Polishes, wax / cream (floor, furniture, shoes)
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour Remarks	: 0,6 : Polishes, spray (furniture, shoes)
Use frequency	: 365 days/year
Remarks	: Ink and toners
SDS Number:100000014260	124/139

TrusTec™ PRF Octane No	SAFETY DATA SHEE
Version 1.13	Revision Date 2022-11-1
Use frequency	: 29 days/year
Remarks	: Polishes, wax / cream (floor, furniture, shoes)
Use frequency	: 8 days/year
Remarks	: Polishes, spray (furniture, shoes)
Conditions and measures related to	protection of consumer (e.g. behavioral advice, personal
protection and hygiene)	procession of concurrent (org. conditional autrice, percental
Remarks	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> </ul>
2.2 Contributing scenario contro greases, release products	lling consumer exposure for: PC24: Lubricants,
Product characteristics	
Concentration of the Substance in	:
Mixture/Article	
Remarks	Liquid
Concentration of the Substance in	:
Mixture/Article	
Remarks	Paste
Concentration of the Substance in	:
Mixture/Article	
Remarks	Sprays
Amount used	
Amount used	: 2200 g
Remarks	: Liquid
	: 34 g
Remarks	: Paste
	: 73 g
Remarks	: Sprays
Frequency and duration of use	
Exposure duration	: 0,17 h
Frequency of use	: 1 times/day
Remarks	: Liquid
Frequency of use	: 1 times/day
Remarks	: Paste
Exposure duration	: 0,17 h
Frequency of use	: 1 times/day
Remarks	: Sprays
Human factors not influenced by ris	
Exposed skin area	: Skin
	: 468,00 cm2
Remarks	: Liquid
Exposed skin area	: Skin
Demortes	: 468,00 cm2
Remarks	: Paste
Exposed skin area	: Skin : 428.75 pm2
Remarks	: 428,75 cm2 : Sprays
Other given operational conditions	
Outdoor / Indoor	: Garage

TrusTec™ PRF Octane No	0. Biends 80-98
Version 1.13	Revision Date 2022-11-1
Boom oizo	: 34 M3
Room size	
Ventilation rate per hour	: 1,5
Remarks	: Liquid
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Sprays
Use frequency	: 4 days/year
Remarks	: Liquid
Use frequency	: 10 days/year
Remarks	: Paste
Use frequency	: 6 days/year
Remarks	: Sprays
	protection of consumer (e.g. behavioral advice, personal
protection and hygiene) Remarks	No apositis Dick Management Massures identified beyond
Remarks	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> </ul>
	those Operational Conditions stated.
	Illing consumer exposure for: PC31, PC34: Polishes and ng and impregnating products; including bleaches and
Concentration of the Substance in	:
	: Polishes, wax / cream (floor, furniture, shoes)
Concentration of the Substance in Mixture/Article	: Polishes, wax / cream (floor, furniture, shoes) :
Concentration of the Substance in Mixture/Article Remarks	:
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in	: Polishes, wax / cream (floor, furniture, shoes) : Polishes, spray (furniture, shoes)
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	:
Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in	: Polishes, spray (furniture, shoes)
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	: Polishes, spray (furniture, shoes)
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> <li>Polishes, spray (furniture, shoes)</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks Remarks	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> <li>Polishes, spray (furniture, shoes)</li> <li>115 g</li> <li>Textile dyes, finishing and impregnating products; including</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks Remarks Remarks Remarks	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> <li>Polishes, spray (furniture, shoes)</li> <li>115 g</li> <li>Textile dyes, finishing and impregnating products; including</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Remarks Remarks Remarks Remarks Frequency and duration of use	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> <li>Polishes, spray (furniture, shoes)</li> <li>115 g</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Remarks Remarks Remarks Remarks Frequency and duration of use Exposure duration	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> <li>Polishes, spray (furniture, shoes)</li> <li>115 g</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>1,23 h</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks Remarks Remarks Remarks Frequency and duration of use Exposure duration Frequency of use	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> <li>Polishes, spray (furniture, shoes)</li> <li>115 g</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks Remarks Remarks Remarks Frequency and duration of use Exposure duration Frequency of use Remarks Exposure duration	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> <li>Polishes, spray (furniture, shoes)</li> <li>115 g</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>1,23 h</li> <li>1 times/day</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Amount used Remarks Remarks Remarks Remarks Frequency and duration of use Exposure duration Frequency of use Remarks	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> <li>Polishes, spray (furniture, shoes)</li> <li>115 g</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>1,23 h</li> <li>1 times/day</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>0,33 h</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Remarks Remarks Remarks Remarks Remarks Frequency and duration of use Exposure duration Frequency of use Remarks Exposure duration Frequency of use Remarks Exposure duration Frequency of use Remarks	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> <li>Polishes, spray (furniture, shoes)</li> <li>115 g</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>1,23 h</li> <li>1 times/day</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>0,33 h</li> <li>1 times/day</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Remarks Remarks Remarks Remarks Remarks Frequency and duration of use Exposure duration Frequency of use Remarks Exposure duration Frequency of use Remarks Exposure duration Frequency of use Remarks Exposure duration Frequency of use Remarks Exposure duration	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> <li>Polishes, spray (furniture, shoes)</li> <li>115 g</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>1,23 h</li> <li>1 times/day</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>0,33 h</li> <li>1 times/day</li> <li>Polishes, spray (furniture, shoes)</li> <li>1,00 h</li> </ul>
Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Concentration of the Substance in Mixture/Article Remarks Remarks Remarks Remarks Remarks Remarks Frequency and duration of use Exposure duration Frequency of use Remarks Exposure duration Frequency of use Remarks Exposure duration Frequency of use Remarks	<ul> <li>Polishes, spray (furniture, shoes)</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>142 g</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>35 g</li> <li>Polishes, spray (furniture, shoes)</li> <li>115 g</li> <li>Textile dyes, finishing and impregnating products; including bleaches and other processing aids</li> <li>1,23 h</li> <li>1 times/day</li> <li>Polishes, wax / cream (floor, furniture, shoes)</li> <li>0,33 h</li> <li>1 times/day</li> <li>Polishes, spray (furniture, shoes)</li> </ul>

# TrusTec<sup>™</sup> PRF Octane No. Blends 80-98

Version 1.13

Revision Date 2022-11-17

Version 1.13	Revision Date 2022-11-17
	bleaches and other processing aids
Human factors not influenced I	by risk management
Exposed skin area	: Skin
	: 430,00 cm2
Remarks	: Polishes, wax / cream (floor, furniture, shoes)
Exposed skin area	: Skin
	: 430,00 cm2
Remarks	: Polishes, spray (furniture, shoes)
Exposed skin area	: Skin
	: 857,50 cm2
Remarks	: Textile dyes, finishing and impregnating products; including
	bleaches and other processing aids
Other given operational conditional	ions affecting consumers exposure
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Polishes, wax / cream (floor, furniture, shoes)
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Polishes, spray (furniture, shoes)
Outdoor / Indoor	: Indoor activities
Room size	: 20 M3
Ventilation rate per hour	: 0,6
Remarks	: Textile dyes, finishing and impregnating products; including bleaches and other processing aids
Use frequency	: 29 days/year
Remarks	: Polishes, wax / cream (floor, furniture, shoes)
Use frequency	: 8 days/year
Remarks	: Polishes, spray (furniture, shoes)
Use frequency	: 365 days/year
Remarks	: Textile dyes, finishing and impregnating products; including
	bleaches and other processing aids
Conditions and measures relat	ed to protection of consumer (e.g. behavioral advice, personal
protection and hygiene)	
Remarks	: No specific Risk Management Measures identified beyond
	those Operational Conditions stated.
3. Exposure estimation and	reference to its source

### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
ERC8a, ERC8d	Hydrocarbon Block Method with Petrorisk		Air		0,000074 mg/m3	
			Freshwater		0,00001 mg/L	0,00027
			Freshwater sediment		0,00022 mg/kg	0,00015
			Marine water		0,0000005 mg/L	0,000013
			Marine sediment		0,000022 mg/kg	0,000015
			Agricultural soil		0,000093	0,00016
SDS Number:1	00000014260			127/139		

			nds 80-98		
/ersion 1.13				Revisio	on Date 2022-11-
EPC8a: Wide	dispersive indeer		ssing aids in open sys	mg/kg	
	e dispersive outdoo		essing aids in open sy		
Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterizatio ratio (PEC/PNEC)
PC1, PC1_1	ECETOC TRA Modified		Consumer – dermal, long-term – systemic	1,79 mg/kg/d	0,00
			Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
			Consumer – inhalation, long-term – systemic	0,85 mg/m3	0,00
			Consumer – long-term – systemic Combined routes		0,00
PC1, PC1_2	ECETOC TRA Modified		Consumer – dermal, long-term – systemic	0,01 mg/kg/d	0,00
			Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
			Consumer – inhalation, long-term – systemic	1,75 mg/m3	0,00
			Consumer – long-term – systemic Combined routes		0,00
			Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
PC1, PC1_3	ECETOC TRA Modified		Consumer – dermal, long-term – systemic	1,79 mg/kg/d	0,00
	Modified		Consumer – inhalation, long-term – systemic	80,56 mg/m3	0,13
			Consumer – long-term – systemic Combined routes		0,14
PC1, PC1_4	ECETOC TRA Modified		Consumer – dermal, long-term – systemic	1,79 mg/kg/d	0,00
			Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
			Consumer – inhalation, long-term – systemic	3,52 mg/m3	0,01
			Consumer – long-term – systemic Combined routes		0,01
PC4, PC4_1	ECETOC TRA Modified		Consumer – dermal, long-term – systemic	0,00 mg/kg/d	0,00
			Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
			Consumer – inhalation, long-term – systemic	0,00 mg/m3	0,00
			Consumer – long-term – systemic Combined routes		0,00
PC4, PC4_2	ECETOC TRA Modified		Consumer – dermal, long-term – systemic	7,13 mg/kg/d	0,01
			Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
			Consumer – inhalation, long-term –	0,18 mg/m3	0,00
			systemic Consumer – long-term – systemic Combined		0,01
PC4, PC4_3	ECETOC TRA		routes Consumer – dermal,	17,87 mg/kg/d	0,03

# TrusTec<sup>™</sup> PRF Octane No. Blends 80-98

Version 1.13

			Revision	Date 2022-11
	Modified	long-term – systemic Consumer – oral, long-	0,00 mg/kg/d	0,00
		term – systemic Consumer – inhalation, long-term –	0,51 mg/m3	0,00
		systemic Consumer – long-term – systemic Combined routes		0,03
PC8, PC8_1	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	0,07 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,07 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,00
PC8, PC8_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	7,15 mg/kg/d	0,01
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,08 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,01
PC8, PC8_3	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	10,70 mg/kg/d	0,02
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	1,77 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,02
PC9a, PC9a_1	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	1,07 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	10,53 mg/m3	0,02
		Consumer – long-term – systemic Combined routes		0,02
PC9a, PC9a_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	19,65 mg/kg/d	0,03
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	52,06 mg/m3	0,09
		Consumer – long-term – systemic Combined routes		0,11
PC9a, PC9a_3	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	0,00 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	34,29 mg/m3	0,06
		Consumer – long-term – systemic Combined routes		0,06
PC9a, PC9a_4	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	71,46 mg/kg/d	0,10
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
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		Consumer – inhalation, long-term – systemic	59,57 mg/m3	0,10
		Consume – long-term – systemic Combined routes		0,20
PC9b, PC9b_1	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	0,12 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,54 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,00
PC9b, PC9b_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	2,86 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	66,97 mg/m3	0,11
		Consumer – long-term – systemic Combined routes		0,11
PC9b, PC9b_3	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	2,54 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	1,00 mg/kg/d	0,00
		Consumer – long-term – systemic Combined routes		0,01
PC9c	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	127,20 mg/kg/d	0,18
		Consumer – oral, long- term – systemic	67,50 mg/kg/d	0,10
		Consumer – long-term – systemic Combined routes		0,28
PC15, PC15_1	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	1,07 mg/kg/d	0,00
	indunidu	Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	10,53 mg/m3	0,02
		Consumer – long-term – systemic Combined routes		0,02
PC15, PC15_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	19,65 mg/kg/d	0,03
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	52,06 mg/m3	0,09
		Consumer – long-term – systemic Combined routes		0,11
PC15, PC15_3	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	0,00 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	34,29 mg/m3	0,06
		Consumer – long-term – systemic Combined routes		0,06
PC15, PC15_4	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	71,46 mg/kg/d	0,10
		Consumer – oral, long-	0,00 mg/kg/d	0,00

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		term – systemic		0.40
		Consumer – inhalation, long-term – systemic	59,57 mg/m3	0,10
		Consumer – long-term – systemic Combined routes		0,20
PC18	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	1,19 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	1,02 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,00
PC23, PC23_1	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	35,83 mg/kg/d	0,05
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	5,07 mg/m3	0,01
		Consumer – long-term – systemic Combined routes		0,06
PC23, PC23_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	35,83 mg/kg/d	0,05
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	17,46 mg/m3	0,03
		Consumer – long-term – systemic Combined routes		0,08
PC24, PC24_1	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	78,00 mg/kg/d	0,11
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,40 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,11
PC24, PC24_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	15,60 mg/kg/d	0,02
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – long-term – systemic Combined routes		0,02
PC24, PC24_3	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	35,73 mg/kg/d	0,05
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	12,29 mg/m3	0,02
		Consumer – long-term – systemic Combined routes		0,07
PC31, PC31_1	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	35,83 mg/kg/d	0,05
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	12,87 mg/m3	0,02
		Consumer – long-term – systemic Combined		0,07
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	I	routes		
PC31, PC31_2	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	35,83 mg/kg/d	0,05
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	10,92 mg/m3	0,02
		Consumer – long-term – systemic Combined routes		0,07
PC34	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	0,14 mg/kg/d	0,00
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	1,80 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,00
	s, hobby use ves, sealants			
		t glue, tile glue, wood parquet glue)		
PC1: Adhesiv PC1_3: Glue	ves, sealants from spray			
PC1: Adhesiv PC1_4: Seal	ves, sealants ants			
	eeze and de-icing hing car window	products		
	eeze and de-icing ing into radiator	products		
PC4: Anti-Fre PC4_3: Lock	eeze and de-icing de- icer	products		
	l products (e.g. Di dry and dish wasl	sinfectants, pest control) ning products		
PC8_2: Clea		sinfectants, pest control) urpose cleaners, sanitary products, s)	floor cleaners, glass	s cleaners,
		sinfectants, pest control) /s (all purpose cleaners, sanitary pro	oducts, glass cleane	ers)
	ngs and paints, thi terborne latex wal	nners, paint removers I paint		
		nners, paint removers d, water borne paint		
DC0a: Castin	and nainta thi	nora point removera		

PC9a: Coatings and paints, thinners, paint removers PC9a\_3: Aerosol spray can

PC9a: Coatings and paints, thinners, paint removers PC9a\_4: Removers (paint-, glue-, wall paper-, sealant-remover)

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PC9b: Fillers, putties, plasters, modelling clay PC9b\_1: Fillers and putty

PC9b: Fillers, putties, plasters, modelling clay PC9b\_2: Plasters and floor equalizers

PC9b: Fillers, putties, plasters, modelling clay PC9b\_3: Modeling Clay

PC9c: Finger paints

PC15: Non-metal-surface treatment products PC15\_1: Waterborne latex wall paint

PC15: Non-metal-surface treatment products PC15\_2: Solvent rich, high solid, water borne paint

PC15: Non-metal-surface treatment products PC15\_3: Aerosol spray can

PC15: Non-metal-surface treatment products PC15\_4: Removers (paint-, glue-, wall paper-, sealant-remover)

PC18: Ink and toners

PC23: Leather tanning, dye, finishing, impregnation and care products PC23\_1: Polishes, wax / cream (floor, furniture, shoes)

PC23: Leather tanning, dye, finishing, impregnation and care products PC23\_2: Polishes, spray (furniture, shoes)

PC24: Lubricants, greases, release products PC24\_1: Liquid

PC24: Lubricants, greases, release products PC24\_2: Paste

PC24: Lubricants, greases, release products PC24\_3: Sprays

PC31: Polishes and wax blends PC31\_1: Polishes, wax / cream (floor, furniture, shoes)

PC31: Polishes and wax blends PC31\_2: Polishes, spray (furniture, shoes)

PC34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

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Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on gualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

#### 1. Short title of Exposure Scenario: Use as a fuel - consumer

Main User Groups	: <b>SU 21:</b> Consumer uses: Private households (= general public = consumers)
Sector of use	<ul> <li>SU 21: Consumer uses: Private households (= general public = consumers)</li> </ul>
Product category	: PC13: Fuels
Environmental release category	: <b>ERC8b, ERC8e, ERC9a, ERC9b:</b> Wide dispersive indoor use of reactive substances in open systems, Wide dispersive outdoor use of reactive substances in open systems, Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems
Further information	: Covers consumer uses in liquid fuels.

2.1 Contributing scenario controlling environmental exposure for: ERC8b, ERC8e, ERC9a, ERC9b: Wide dispersive indoor use of reactive substances in open systems, Wide dispersive outdoor use of reactive substances in open systems. Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems

#### Product characteristics

Maximum allowable site tonnage : 240.000 (MSafe) based on release following total wastewater treatment removal (kg/d): (Msafe)

#### Environment factors not influenced by risk management

Flow rate	: 18.000 m3/d
Dilution Factor (River)	: 10
Dilution Factor (Coastal Areas)	: 100

#### Other given operational conditions affecting environmental exposure

### Continuous use/release

Number of emission days per year		365
Emission or Release Factor: Air	:	0,1 %
Emission or Release Factor: Water	:	0,001 %
Emission or Release Factor: Soil	:	0,001 %

#### Technical conditions and measures / Organizational measures Remarks

: Not applicable

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	o municipal sewage treatment plant
Type of Sewage Treatment Plant	: Municipal sewage treatment plant
Flow rate of sewage treatment	: 2.000 m3/d
plant effluent Percentage removed from waste	: 96,3 %
water Sludgo Trootmont	· No data available
Sludge Treatment Procedures to limit air emissions	: No data available : No data available
from Sewage Treatment Plant	
	o external treatment of waste for disposal
Remarks	<ul> <li>Combustion emissions limited by required exhaust emission controls.</li> <li>Combustion emissions considered in regional exposure</li> </ul>
	assessment.
Conditions and measures related t	
Recovery Methods	: This substance is consumed during use and no waste of the substance is generated.
2.2 Contributing scenario contr	olling consumer exposure for: PC13: Fuels- Liquid
Product characteristics	
Physical Form (at time of use)	: Liquid substance
Amount used	
	: 37500 g
Frequency and duration of use	
Exposure duration	2h
Frequency of use	: >1 times/day
Human factors not influenced by r	
Exposed skin area	: Skin : 420 cm2
	. 420 CH12
Other given operational conditions Room size	affecting consumers exposure : 20 M3
Remarks	: Unless otherwise stated assumes use at ambient
	temperatures, Assumes use with typical ventilation.
Conditions and measures related t	o protection of consumer (e.g. behavioral advice, personal
protection and hygiene)	· · · · · · · · · · · · · · · · · · ·
Remarks	<ul> <li>No specific Risk Management Measures identified beyond those Operational Conditions stated.</li> </ul>
	olling environmental exposure for:ERC8b, ERC8e,
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of indoor use of substances in clo	e indoor use of reactive substances in open systems, reactive substances in open systems, Wide dispersive psed systems, Wide dispersive outdoor use of substances
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of indoor use of substances in clo	e indoor use of reactive substances in open systems, reactive substances in open systems, Wide dispersive
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of indoor use of substances in clo in closed systems Product characteristics	e indoor use of reactive substances in open systems, reactive substances in open systems, Wide dispersive
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of indoor use of substances in clo in closed systems	e indoor use of reactive substances in open systems, reactive substances in open systems, Wide dispersive
ERC9a, ERC9b: Wide dispersive Wide dispersive outdoor use of indoor use of substances in clo in closed systems Product characteristics Concentration of the Substance in	e indoor use of reactive substances in open systems, reactive substances in open systems, Wide dispersive

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Concentration of the Substance in Mixture/Article Remarks	: Scooter Refuelling
Concentration of the Substance in Mixture/Article Remarks	: Garden Equipment- Use
Concentration of the Substance in Mixture/Article Remarks	: Garden Equipment- Refueling
Concentration of the Substance in Mixture/Article Remarks	: Lamp Oil

2.2 Contributing scenario contro	lling consumer exposure for: PC13: Fuels- Liquid
Product characteristics	
	:
Mixture/Article	
Remarks	Automotive Refuelling
Concentration of the Substance in Mixture/Article	:
Remarks	Scooter Refuelling
Concentration of the Substance in Mixture/Article	:
Remarks	Garden Equipment- Use
Concentration of the Substance in Mixture/Article	:
Remarks	Garden Equipment- Refueling
Concentration of the Substance in Mixture/Article	:
Remarks	Lamp Oil
• • • • • •	
Amount used	: 37500 g
Remarks	: Automotive Refuelling : 3750 g
Remarks	: Scooter Refuelling : 750 g
Remarks	: Garden Equipment- Use : 750 g
Remarks	: Garden Equipment- Refueling : 100 g
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Remarks	: Lamp Oil	
Frequency and duration of use		
Exposure duration	: 0,05 h	
Frequency of use Remarks	: 1 times/day	
Exposure duration	: Automotive Refuelling : 0,03 h	
	: 1 times/day	
Frequency of use Remarks		
Exposure duration	: Scooter Refuelling : 2,00 h	
Frequency of use	: 1 times/day	
Remarks	: Garden Equipment- Use	
	: 0,03 h	
Exposure duration Frequency of use		
Remarks	: 1 times/day	
	: Garden Equipment- Refueling	
Exposure duration	: 0,01 h	
Frequency of use Remarks	: 1 times/day	
Remarks	: Lamp Oil	
Human factors not influenced by r		
Exposed skin area	: Skin	
	: 210,00 cm2	
Remarks	: Automotive Refuelling	
Exposed skin area	: Skin	
	: 210,00 cm2	
Remarks	: Scooter Refuelling	
Exposed skin area	: Skin	
	: 420,00 cm2	
Remarks	: Garden Equipment- Refueling	
Exposed skin area	: Skin	
	: 210,00 cm2	
Remarks	: Lamp Oil	
Other given operational conditions	s affecting consumers exposure	
Outdoor / Indoor	: Outdoor Activities	
Room size	: 100 M3	
Ventilation rate per hour	: 0,6	
Remarks	: Automotive Refuelling	
Outdoor / Indoor	: Outdoor Activities	
Room size	: 100 M3	
Ventilation rate per hour	: 0,6	
Remarks	: Scooter Refuelling	
Outdoor / Indoor	: Outdoor Activities	
Room size	: 100 M3	
Ventilation rate per hour	: 0,6	
Remarks	: Garden Equipment- Use	
Outdoor / Indoor	: Garage	
Room size	: 34 M3	
Ventilation rate per hour	: 1,5	
Remarks	: Garden Equipment- Refueling	
Outdoor / Indoor	: Indoor activities	
Room size	: 20 M3	
Ventilation rate per hour	: 0,6	
Remarks	: Lamp Oil	
Use frequency	: 52 days/year	
Remarks	: Automotive Refuelling	
	: 52 days/year	
Use frequency Remarks	Scoter Pefuelling	
Remarks Use frequency	: Scooter Refuelling : 26 days/year	

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Remarks: Garden Equipment- UUse frequency: 26 days/yearRemarks: Garden Equipment- RUse frequency: 52 days/yearRemarks: Lamp Oil
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# Conditions and measures related to protection of consumer (e.g. behavioral advice, personal protection and hygiene)

Remarks

: No specific Risk Management Measures identified beyond those Operational Conditions stated.

#### 3. Exposure estimation and reference to its source

#### Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
ERC8b, ERC8e, ERC9a, ERC9b	Hydrocarbon Block Method with Petrorisk		Air		0,000074 mg/m3	
			Freshwater		0,0000058 mg/L	0,00015
			Freshwater sediment		0,0001 mg/kg	0,000073
			Marine water		0,000066 µg/L	0,000002
			Marine sediment		0,0000028 mg/kg	0,000002
			Agricultural soil		0,000012 mg/kg	0,000021

ERC8b: Wide dispersive indoor use of reactive substances in open systems ERC8e: Wide dispersive outdoor use of reactive substances in open systems ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

#### Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PC13, PC13_1	ECETOC TRA Modified		Consumer – dermal, long-term – systemic	35,00 mg/kg/d	0,05
			Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
			Consumer – inhalation, long-term – systemic	0,15 mg/m3	0,00
			Consumer – long-term – systemic Combined routes		0,05
PC13, PC13_2	ECETOC TRA Modified		Consumer – dermal, long-term – systemic	35,00 mg/kg/d	0,05
			Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
			Consumer – inhalation, long-term – systemic	0,10 mg/m3	0,00
			Consumer – long-term – systemic Combined routes		0,05
PC13, PC13_3	ECETOC TRA Modified		Consumer – dermal, long-term – systemic	0,00 mg/kg/d	0,00
			Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
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		Consumer – inhalation, long-term – systemic	0,73 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,00
PC13, PC13_4	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	70,00 mg/kg/d	0,10
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,08 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,10
PC13, PC13_5	ECETOC TRA Modified	Consumer – dermal, long-term – systemic	35,00 mg/kg/d	0,05
		Consumer – oral, long- term – systemic	0,00 mg/kg/d	0,00
		Consumer – inhalation, long-term – systemic	0,01 mg/m3	0,00
		Consumer – long-term – systemic Combined routes		0,05

PC13: Fuels- Liquid PC13\_1: Automotive Refuelling

PC13: Fuels- Liquid PC13\_2: Scooter Refuelling

PC13: Fuels- Liquid PC13\_3: Garden Equipment- Use

PC13: Fuels PC13\_4: Garden Equipment- Refueling

PC13: Fuels PC13\_5: Lamp Oil

# 4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).