SAFETY DATA SHEET



Diesel No. 2 Test Fuel

Version 1.12

Revision Date 2024-05-21

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

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

1.1 Product identifier

Product information

Product Name Material	 Diesel No. 2 Test Fuel 1126733, 1126729, 1126732, 1126728, 1126711, 1126727, 1126710, 1126726, 1126205, 1125693, 1124271, 1101406, 1117144, 1114932, 1114380, 1114379, 1111796, 1111792, 1111793, 1111721, 1108397, 1097307, 1096433, 1083233, 1096612, 1084817, 1097324, 1097322, 1097310, 1089768, 1079939, 1097309, 1090864, 1077073, 1077061, 1090863, 1069145, 1100027, 1099634, 1090866, 1099603, 1090314, 1097785, 1087561, 1092489, 1076410, 1102501, 1097387, 1090432, 1090433, 1100452, 1097386, 1078955, 1100842, 1077075, 1097308, 1100531, 1069147, 1090862, 1078060, 1077077, 1068920, 1078988, 1017963, 1017962, 1036152, 1024299, 1024300, 1017964, 1024301, 1017977, 1024303, 1017981, 1017980, 1017965, 1017978, 1017967, 1017966, 1017979, 1024297, 1024293, 1029744, 1024292, 1017982, 1024294, 1024296, 1024302, 1024304, 1024309, 1024308, 1024307, 1024306, 1024295, 1024305, 1024298, 1029490, 1104964, 1104939, 1104952, 1104938, 1104941, 1104963,
	1104956, 1104955, 1104953

EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
Diesel fuel, no. 2	68476-34-6 270-676-1 649-227-00-2	Chevron Phillips Chemicals International NV 01-2119475502-40-0023

1.2

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

Relevant Identified Uses Supported	: Manufacture Distribution Use as an intermediate Use as a fuel - industrial
	Use as a fuel – professional

1.3

Details of the supplier of the safety data sheet

SDS Number:100000013879

1/55

ersion 1.12	
	Revision Date 2024-05-2
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 Emergency telephone:	
Mexico CHEMTREC 01-8 South America SOS-Cote Argentina: +(54)-1159833 EUROPE: BIG +32.14.58 Austria: VIZ +43 1 406 43 Belgium: 070 245 245 (24 Bulgaria: +359 2 9154 23 Croatia: +3851 2348 342 Cyprus: 1401 Czech Republic: Toxicolo Denmark: Danish Poison Estonia: BIG +32.14.584 Finland: 0800 147 111 0 France: ORFILA number Germany: BIG +32.14.584 Greece: (0030) 2107793 Hungary: +36-80-201-199 Iceland: 543 2222 (24 ho Ireland: BIG +32.14.5845 Italy: POISON CENTER 66101029; POISON CEN clinica Tel. +39 06 30543 Tel. +39 06 68593726; PO	tional) 800 or 703.527.3887(int'l) 112 9186 1132) China: 0532 8388 9090 800-681-9531 (24 hours) 12ec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 19431 84545 (phone) or +32.14583516 (telefax) 3 43 (24 hours/day, 7 days/week) 24 hours/day, 7 days/week) 133 2 (24 hours/day, 7 days/week) 133 2 (24 hours/day, 7 days/week) 133 2 (24 hours/day, 7 days/week) 1355 (phone) or +32.14583516 (telefax) 139 471 977 (24 hours/day) 145 42 59 59 (24 hours/day, 7 days/week) 14545 (phone) or +32.14583516 (telefax) 1545 (phone) or +32.14583516 (telefax) 15777 (24 hours/day, 7 days/week) 159 (24 hours/day, 7 days/week) 150 (24 hours/day, 7 days/week) 151 (10 (10 (10 (10 (10 (10 (10 (10 (10 (1

Revision Date 2024-05-21

Version 1.12

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
Website	:	www.CPChem.com

SECTION 2: Hazards identification

2.1

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

Flammable liquids, Category 3

Short-term (acute) aquatic hazard, Category 2 Acute toxicity, Category 4

Skin irritation, Category 2

Carcinogenicity, Category 2

Specific target organ toxicity - repeated exposure, Category 2, Liver

- , Blood
- , thymus Aspiration hazard, Category 1

Long-term (chronic) aquatic hazard, Category 2 H226: Flammable liquid and vapor. H401: Toxic to aquatic life. H332: Harmful if inhaled. H315: Causes skin irritation. H351: Suspected of causing cancer. H373: May cause damage to organs through prolonged or repeated exposure.

H304: May be fatal if swallowed and enters airways. H411: Toxic to aquatic life with long lasting effects.

2.2

Labeling (REGULATION (EC) No 1272/2008)

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Diesel No. 2 Test Fuel		SAFETY DATA SHEE
Version 1.12		Revision Date 2024-05-2
	11000	
	H332 H351	Harmful if inhaled. Suspected of causing cancer.
	H373	May cause damage to organs (Liver, Blood,
		thymus) through prolonged or repeated
		exposure.
	H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements	: Prevention:	
r recoulienary clatements	P210	Keep away from heat, hot surfaces, sparks,
		open flames and other ignition sources. No
		smoking.
	P260	Do not breathe dust/ fume/ gas/ mist/
	D 070	vapors/ spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing
		protection.
	Response:	2.000000
	P301 + P310	IF SWALLOWED: Immediately call a
		POISON CENTER/ doctor.
	P331	Do NOT induce vomiting.
	P370 + P378	In case of fire: Use dry sand, dry chemical
	D204	or alcohol-resistant foam to extinguish.
	P391	Collect spillage.
.3	h must be listed on the	e label:
• 68476-34-6 Die	sel fuel, no. 2 : This substance/ be either persis	e label: mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1%
 68476-34-6 Die .3 Other hazards Results of PBT and vPvB 	 Sel fuel, no. 2 This substance/ be either persist persistent and v or higher. The substance/ considered to h to REACH Artic (EU) 2017/2100 	mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1% mixture does not contain components have endocrine disrupting properties according cle 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at
 68476-34-6 Die 3 Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties 	 Sel fuel, no. 2 This substance/ be either persis: persistent and v or higher. The substance/ considered to h to REACH Artic (EU) 2017/2100 levels of 0.1% of 	mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1% mixture does not contain components have endocrine disrupting properties according cle 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.
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 68476-34-6 Die .3 Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties ECTION 3: Composition/infor .1 - 3.2 	 Sel fuel, no. 2 This substance/ be either persis: persistent and v or higher. The substance/ considered to h to REACH Artic (EU) 2017/2100 levels of 0.1% of 	mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1% mixture does not contain components have endocrine disrupting properties according cle 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.
68476-34-6 Die Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties ECTION 3: Composition/infor .1 - 3.2 Substance or Mixture	 Sel fuel, no. 2 This substance/ be either persist persistent and v or higher. The substance/ considered to h to REACH Artic (EU) 2017/2100 levels of 0.1% of mation on ingredien 	mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1% mixture does not contain components have endocrine disrupting properties according cle 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.
 68476-34-6 Die 3 Other hazards Results of PBT and vPvB assessment Endocrine disrupting 	 Sel fuel, no. 2 This substance/ be either persist persistent and v or higher. The substance/ considered to h to REACH Artic (EU) 2017/2100 levels of 0.1% of mation on ingredien Diesel 0.05 LS E 	mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1% mixture does not contain components have endocrine disrupting properties according cle 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher. ts
68476-34-6 Die Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties SECTION 3: Composition/infor 4.1 - 3.2 Substance or Mixture	 Sel fuel, no. 2 This substance/ be either persist persistent and v or higher. The substance/ considered to h to REACH Artic (EU) 2017/2100 levels of 0.1% of mation on ingredien Diesel 0.05 LS E 	mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1% mixture does not contain components have endocrine disrupting properties according cle 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher. ts Emiss Cert Test Fuel- Cummins ission Certification Fuel
68476-34-6 Die Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties SECTION 3: Composition/infor 4.1 - 3.2 Substance or Mixture	 Sel fuel, no. 2 This substance/ be either persis persistent and v or higher. The substance/ considered to h to REACH Artic (EU) 2017/2100 levels of 0.1% of mation on ingredien Diesel 0.05 LS E Diesel 2007 Em Diesel CEC (RF Diesel Euro-II C 	 ⁷/mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1% ⁷/mixture does not contain components according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher. ts Emiss Cert Test Fuel- Cummins ission Certification Fuel -73-T-90) ert Fuel
68476-34-6 Die Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties SECTION 3: Composition/infor 4.1 - 3.2 Substance or Mixture	 Sel fuel, no. 2 This substance/ be either persis persistent and v or higher. The substance/ considered to h to REACH Artic (EU) 2017/2100 levels of 0.1% of mation on ingredien Diesel 0.05 LS E Diesel 2007 Em Diesel CEC (RF Diesel Euro-II C Diesel Euro-IV (^{(mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1%} ^{(mixture does not contain components nave endocrine disrupting properties according ble 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.} ts Emiss Cert Test Fuel- Cummins ission Certification Fuel -73-T-90) ert Fuel Cert Fuel
68476-34-6 Die Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties SECTION 3: Composition/infor 4.1 - 3.2 Substance or Mixture	 Sel fuel, no. 2 This substance/ be either persisis persistent and voor higher. The substance/ considered to h to REACH Artice (EU) 2017/2100 levels of 0.1% of mation on ingredien Diesel 0.05 LS E Diesel 2007 Em Diesel CEC (RF Diesel Euro-II C Diesel Euro-IV (Diesel Euro-IV (Diesel Reference) 	 ⁷/mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1% ⁷/mixture does not contain components according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher. ts Emiss Cert Test Fuel- Cummins ission Certification Fuel -73-T-90) ert Fuel
68476-34-6 Die Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties SECTION 3: Composition/infor 4.1 - 3.2 Substance or Mixture	 Sel fuel, no. 2 This substance/ be either persisis persistent and voor higher. The substance/ considered to h to REACH Artice (EU) 2017/2100 levels of 0.1% of mation on ingredien Diesel 0.05 LS E Diesel 2007 Em Diesel CEC (RF Diesel Euro-II C Diesel Euro-IV (Diesel Reference Diesel 	mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1% mixture does not contain components have endocrine disrupting properties according ble 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher. ts Emiss Cert Test Fuel- Cummins ission Certification Fuel -73-T-90) ert Fuel Cert Fuel e Fuels, Diesel Cert Fuel, Oil Classification
68476-34-6 Die Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties ECTION 3: Composition/infor .1 - 3.2 Substance or Mixture	 Sel fuel, no. 2 This substance/ be either persisis persistent and voor higher. The substance/ considered to h to REACH Artice (EU) 2017/2100 levels of 0.1% of mation on ingredien Diesel 0.05 LS E Diesel 2007 Em Diesel CEC (RF Diesel Euro-II C Diesel Euro-II C Diesel Euro-IV C Diesel Reference Diesel Diesel 0.05 LS E 	<pre>/mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1%</pre> /mixture does not contain components have endocrine disrupting properties according ble 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher. // ts Emiss Cert Test Fuel- Cummins ission Certification Fuel -73-T-90) ert Fuel cert Fuel e Fuels, Diesel Cert Fuel, Oil Classification Emiss Cert Test Fuel- ITE
68476-34-6 Die Other hazards Results of PBT and vPvB assessment Endocrine disrupting properties ECTION 3: Composition/infor .1 - 3.2 ubstance or Mixture	 Sel fuel, no. 2 This substance/ be either persisis persistent and voor higher. The substance/ considered to h to REACH Artice (EU) 2017/2100 levels of 0.1% of mation on ingredien Diesel 0.05 LS E Diesel 2007 Em Diesel CEC (RF Diesel Euro-II C Diesel Euro-IV (Diesel Reference Diesel 	<pre>/mixture contains no components considered to tent, bioaccumulative and toxic (PBT), or very very bioaccumulative (vPvB) at levels of 0.1%</pre> /mixture does not contain components have endocrine disrupting properties according ble 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher. // ts Emiss Cert Test Fuel- Cummins ission Certification Fuel -73-T-90) ert Fuel cert Fuel e Fuels, Diesel Cert Fuel, Oil Classification Emiss Cert Test Fuel- ITE

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esel No. 2 Test I	Fuel			
sion 1.12			Revis	sion Date 2024-05
	Loco PC-1 Diese Ultra Diese 0.05% No S Diese Diese Cate	el Special Test Fuel motive Diesel Certificatio 0 Diesel Test Fuel el CEC (RF-03-A-84) High Cetane Check Fue el 2004 Tier 2 Fuel % Sulfur Diesel Fuel - JA ulfur (less than 3 PPM) E el Caterpillar F173 el Caterpillar TE2973 rpillar China Certification EL PC-10 TEST FUEL	I (ASTM) Diesel SO Diesel Test Fuel	ge III
Molecular formula Hazardous ingredien	: UVCI	3		
Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]	Specific Conc. Limits, M-factors and ATEs
Diesel fuel, no. 2	68476-34-6 270-676-1 649-227-00-2	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Carc. 2; H351 STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	100	
Naphthalene	91-20-3 202-049-5 601-052-00-2	Flam. Sol. 2; H228 Acute Tox. 4; H302 Carc. 2; H351	0 - 1	

Aquatic Acute 1; H400 Aquatic Chronic 1; H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1

4.1	Description of first-aid mea	sur	res	
	General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.	
	If inhaled	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.	
	In case of skin contact	:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.	
	In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.	
	If swallowed	:	Keep respiratory tract clear. Do NOT induce vomiting. Do not	
SDS	S Number:100000013879		5/55	

ייר	esel No. 2 Test Fuel		SAFETY DATA SHEET
	rsion 1.12		Revision Date 2024-05-2
			give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
			effects, both acute and delayed edical attention and special treatment needed
SEC	CTION 5: Firefighting measu	ires	
	Flash point	:	47°C (117°F) minimum
	Autoignition temperature	:	No data available
.1	Extinguishing media		
	Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
5.2	Special hazards arising fro Specific hazards during fire fighting	om t :	
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). Keep away from open flames, hot surfaces and sources of ignition.
			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). Keep away from open flames, hot surfaces and sources of ignition.
	Hazardous decomposition products	:	Hydrocarbons. Carbon oxides.
SEC	CTION 6: Accidental release	me	asures
6.1			ive equipment and emergency procedures
	Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate

Version 1.12 Revision Date 2024-C 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 containment and cleaning up Methods for 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 Reference to other sections For additional details, see the Exposure Scenario in the Annex portion SECTION 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 contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautions protection 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	Die	esel No. 2 Test Fuel	SAFETY DATA SHEET
6.2 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 containment and cleaning up Methods for cleaning up Prevent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). 6.4 Reference to other sections For additional details, see the Exposure Scenario in the Annex portion SECTION 7: Handling and storage 7.1 Precautions for safe handling Handling Advice on safe handling Advice on protection against fire and explosion : Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection seagainst static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content mary be under pressure. Dispose of rines 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). Keep away from open flames, hot surfaces and sources of ignition. Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity di			Revision Date 2024-05-21
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 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 containment and cleaning up Methods for cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, verniculite) and place in container for disposal according to tocal / national regulations (see section 13). 6.4 Reference to other sections For additional details, see the Exposure Scenario in the Annex portion SECTION 7: Handling and storage Advice on safe handling Handling Advice on safe handling Advice on protection against fire and explosion 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). Keep away from open flames, hot surfaces and sources of ignition. Conditions for safe storage, including any incompatibilities Storage Requirements for storage areas and containers 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. Observe label precautions. Electrical installations / working 	6.2	Environmental precautions	
Methods and materials for containment and cleaning up Methods for 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 Reference to other sections For additional details, see the Exposure Scenario in the Annex portion SECTION 7: Handling and storage 7.1 Precautions for safe handling Handling Advice on safe handling Handling Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see 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). Keep away from open flames, hot surfaces and sources of ignition. 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). Keep away from open flames, hot surfaces and sources of ignition. Do not spray on a naked flame or any incandescent material. Take ne		Environmental precautions :	
Methods for 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 Reference to other sections For additional details, see the Exposure Scenario in the Annex portion SECTION 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 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). Keep away from open flames, hot surfaces and sources of ignition. 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). Keep away from open flames, hot surfaces and sources of ignition. 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). Keep away from open flames, hot surfaces and sources of ignition. Do	6.3		
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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 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). Keep away from open flames, hot surfaces and sources of ignition. 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). Keep away from open flames, hot surfaces and sources of ignition. 7.2 Conditions for safe storage, including any incompatibilities Storage : No smoking. Keep container tightly closed in a dry and well-vertilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working	6.4		xposure Scenario in the Annex portion
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 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). Keep away from open flames, hot surfaces and sources of ignition. 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). Keep away from open flames, hot surfaces and sources of ignition. 7.2 Conditions for safe storage, including any incompatibilities Storage : No smoking. Keep container tightly closed in a dry and well- vertilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working	SEC	TION 7: Handling and storage	
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 exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see 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). Keep away from open flames, hot surfaces and sources of ignition. 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). 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 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. Observe label precautions. Electrical installations / working 			
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Conditions for safe storage, including any incompatibilities Storage Requirements for storage areas and containers : 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. Observe label precautions. Electrical installations / working			Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition. 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). Keep away
Storage Requirements for storage areas and containers : 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. Observe label precautions. Electrical installations / working	7.2	On ditions for onfo stansas is	
Requirements for storage areas and containers : 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. Observe label precautions. Electrical installations / working			
areas and containers ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working		Storage	
			ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
SDS Number:100000013879 7/55	SDS	S Number:100000013879	7/55

Version 1.12

SAFETY DATA SHEET

Revision Date 2024-05-21

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

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Podetata	Hodpota	Kontrolné parametro	Poznámka
			K,
		11 / 0	K,
aktor môže byť ľahko absorbovaný y, éasto bez varovných príznakov (kožou. Niektoré faktory, napr. anilín, nitrobenzén,	ktoré l'ahko prenikajú kožou, m nitroglykol, fenoly a pod.). Pri lá	ôžu spôsobovať až
	1	1	
			Pripomba
			2, K,
			2, K, Inhalabilna frakcij
			2, K, 2, K, Inhalabilna frakcij
ovi - kategorija 2		50 mg/m5	
Grundval	Värde	Kontrollparametrar	Anmärkning
			Annakhing
			V.
Основа	Величина	Параметры контроля	Заметка
RU OEL	ПДК разовая	20 mg/m3	4, пары и/или газы
RU OEL	ПДК разовая	20 mg/m3	4, пары и/или газы
енно опасные	1 -		
-			Заметка
RS OEL	GVI	10 ppm, 50 mg/m3	Carc. cat. 3, EU,
RO OEL a provoca apariţia cancerului	TWA	10 ppm, 50 mg/m3	Notă C2,
Bases	Valor	Parâmetros de	Nota
		controlo	P, A3,
			P, A3, P, A3, Fração inalável
PT OEL	VLE-MP	100 mg/m3	vapor
PT OEL	VLE-MP	10 ppm,	P, A3,
PT DL 305/2007	oito horas	10 ppm, 50 mg/m3	
rção cutânea	laboratório com relevâno		
Podstawa	Wartość	kontroli	Uwaga
PL NDS	NDS	20 mg/m3	
PL NDS	NDSch	50 mg/m3	
Grupplag	Verdi	Kontrollnarametrer	Nota
			nota
1358	GV	10 ppm, 50 mg/m3	
Basis	Waarde	Controleparameters	Opmerking
NL WG	TGG-8 uur	50 mg/m3	· · · · · · · · · · · · · · · · · · ·
NL WG	TGG-15 min	80 mg/m3	
	•		
Basis	Value	Control parameters	Note
MT OEL	TWA	10 ppm, 50 mg/m3	
		10 ppm, 50 mg/m3	
	y, éasto bez varovných príznakov (cožu, éi už v podobe kvapalín alebo SI OEL SI OEL SI OEL SI OEL SI OEL SI OEL OVI - kategorija 2 a prehajanja snovi v organizem sko Grundval SE AFS SE AFS rttidsgränsvärde ska användas sor OCHOBA RU OEL RU OEL RU OEL RU OEL EHHO ONACHJE OCHOBA RS OEL tances that cause concern about po titoned in indicative exposure limit v Sursă RO OEL a provoca apariţia cancerului Bases PT OEL PT OEL PL NDS	SK OEL NPEL priemerný SK OEL NPEL krátkodobý aktor môže byť ľahko absorbovaný kožou. Niektoré faktory, kožu, éi už v podobe kvapalín alebo pár, je osobitne dôležite Osnova Vrednost SI OEL MV SI OEL MV SI OEL MV SI OEL KTV yoji - kategorija 2 a prehajanja snovi v organizem skozi kožo Grundval Värde SE AFS NGV SUSTAF RU OEL RU OEL TJK pasoBaa RU OEL TJK pasoBaa RU OEL TJK pasoBaa <td>SK OEL NPEL priemerný 10 ppm, 50 mg/m3 iktor môže byť Tahko absorbovaný kozou. Mikkofé faktory, ktoré Tahko kozou, my, éasto bez varovných priznakov (napr. anilin, nitrobenzén, nitroglykol, fenoly a pod.). Při i kožu, ei už v podobe kvapalín alebo pár, je osobitne dôležité zabrániť kožnému kontaktu. Osnova Vrednost Parametri nadzora Si OEL MV 10 ppm, Si OEL KTV 10 ppm, Si OEL KTV 10 ppm, si OEL KTV 50 mg/m3 si OEL KTV 10 ppm, 50 mg/m3 si OEL KTV 10 ppm, 50 mg/m3 si OEL KTV 10 ppm, 50 mg/m3 si OEL RU 15 ppm, 80 mg/m3 si OEL NGV 10 ppm, 50 mg/m3 tidsgränsvårde ska användas som ett rekommenderat högsta värde som inte bör överskrif Ochoba Beличина Параметры контроля RU OEL ПДК разовая 20 mg/m3 endo onachuse Ochoba Beличина</td>	SK OEL NPEL priemerný 10 ppm, 50 mg/m3 iktor môže byť Tahko absorbovaný kozou. Mikkofé faktory, ktoré Tahko kozou, my, éasto bez varovných priznakov (napr. anilin, nitrobenzén, nitroglykol, fenoly a pod.). Při i kožu, ei už v podobe kvapalín alebo pár, je osobitne dôležité zabrániť kožnému kontaktu. Osnova Vrednost Parametri nadzora Si OEL MV 10 ppm, Si OEL KTV 10 ppm, Si OEL KTV 10 ppm, si OEL KTV 50 mg/m3 si OEL KTV 10 ppm, 50 mg/m3 si OEL KTV 10 ppm, 50 mg/m3 si OEL KTV 10 ppm, 50 mg/m3 si OEL RU 15 ppm, 80 mg/m3 si OEL NGV 10 ppm, 50 mg/m3 tidsgränsvårde ska användas som ett rekommenderat högsta värde som inte bör överskrif Ochoba Beличина Параметры контроля RU OEL ПДК разовая 20 mg/m3 endo onachuse Ochoba Beличина

SAFETY DATA SHEET

Version 1.12

//К Съставки	Основа	Стойност	Парамотри на	Бележка
OBOTABNI	Основа	Стойност	Параметри на контрол	Бележка
Naphthalene	MK OEL	MV	10 ppm, 50 mg/m3	
.V				
- v Sastāvdalas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Naphthalene	LV OEL	AER 8 st	10 ppm, 50 mg/m3	TICZIIIIC
U	Data	Malaxin	Demons (trace de	Nete
Composants	Base	Valeur	Paramètres de contrôle	Note
Naphthalene	LU OEL	TWA	10 ppm, 50 mg/m3	
•	20 022		To ppin, oo mg/mo	
<u>.T</u>	×			_
Komponentai	Šaltinis	Vertė	Kontrolės parametrai	Pastaba
Diesel fuel, no. 2	LT OEL LT OEL	IPRD TPRD	200 mg/m3	
Naphthalene	LT OEL	IPRD	300 mg/m3 10 ppm, 50 mg/m3	
Парнинаюно			To ppin, oo mg/mo	
S				
Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
Naphthalene	IS OEL	TWA	10 ppm, 50 mg/m3	
E				
Components	Basis	Value	Control parameters	Note
Naphthalene	IE OEL	OELV - 8 hrs (TWA)	10 ppm, 50 mg/m3	
HU Komponensek	Bázis	Érték	Ellenőrzési	Megjegyzés
Kompononoek	Dazis	LIGK	paraméterek	Mcgjegyzes
Naphthalene	HU OEL	AK-érték	50 mg/m3	N, EU91, i,
EU91 91/322/EGK irány	elvben közölt érték			
Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
Diesel fuel, no. 2	HR OEL	GVI	100 ppm, 400 mg/m3	Dijooka
Diesel fuel, no. 2 Naphthalene	HR OEL HR OEL		100 ppm, 400 mg/m3 10 ppm, 50 mg/m3	
,	HR OEL	GVI	100 ppm, 400 mg/m3	
Naphthalene	HR OEL HR OEL	GVI	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3	
Naphthalene	HR OEL HR OEL	GVI	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3	Σημείωση
Naphthalene GR	HR OEL HR OEL HR OEL	GVI GVI	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3	
Naphthalene GR Συστατικά Naphthalene	HR OEL HR OEL HR OEL Βάση	GVI GVI	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου	
Naphthalene GR Συστατικά Naphthalene FR	HR OEL HR OEL HR OEL Βάση GR OEL	GVI GVI	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου	
Naphthalene GR Συστατικά Naphthalene	HR OEL HR OEL HR OEL Βάση	GVI GVI Tiµń TWA	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3	Σημείωση Νote
Naphthalene SR Συστατικά Naphthalene R Composants	HR OEL HR OEL HR OEL Βάση GR OEL	GVI GVI Tiµń TWA	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de	Σημείωση Note
Naphthalene GR Συστατικά Naphthalene FR Composants Naphthalene	HR OEL HR OEL HR OEL Bάση GR OEL Base FR VLE	GVI GVI Tıµń TWA Valeur	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3	Σημείωση Νote
Naphthalene GR Συστατικά Naphthalene R Composants Naphthalene Composants Valeurs limites indicatives	HR OEL HR OEL HR OEL Báơŋ GR OEL Base FR VLE atégorie 2 - Substances pred	GVI GVI Tıµή TWA Valeur VME	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3	Σημείωση Note
Naphthalene GR Συστατικά Naphthalene R Composants Naphthalene Composants Valeurs limites indicatives	HR OEL HR OEL HR OEL Báơŋ GR OEL Base FR VLE atégorie 2 - Substances pred	GVI GVI Tıµή TWA Valeur VME	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat	Σημείωση Note
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene C2 Valeurs limites indicatives Naphthalene C2 Valeurs limites indicatives	HR OEL HR OEL HR OEL Báơŋ GR OEL Base FR VLE atégorie 2 - Substances pred dicatives Peruste FI OEL	GVI GVI TIµń TWA Valeur VME occupantes en raison d'effets Arvo HTP-arvot 8h	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3	Σημείωση Note C2, Valeurs limites indicatives,
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene C2 Valeurs limites indicatives Valeurs limites indicatives I Aineosat	HR OEL HR OEL HR OEL Bάση GR OEL Base FR VLE atégorie 2 - Substances pred dicatives Peruste	GVI GVI VI TIµή TWA Valeur VME voccupantes en raison d'effets	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat	Σημείωση Note C2, Valeurs limites indicatives,
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene C2 Valeurs limites indicatives Valeurs limites indicatives Aineosat Naphthalene	HR OEL HR OEL HR OEL Báơŋ GR OEL Base FR VLE atégorie 2 - Substances pred dicatives Peruste FI OEL	GVI GVI TIµń TWA Valeur VME occupantes en raison d'effets Arvo HTP-arvot 8h	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3	Σημείωση Note C2, Valeurs limites indicatives,
Naphthalene GR Συστατικά Naphthalene FR Composants Naphthalene C2 Valeurs limites indicatives Valeurs limites indicatives Aineosat Naphthalene	HR OEL HR OEL HR OEL Báơŋ GR OEL Base FR VLE atégorie 2 - Substances pred dicatives Peruste FI OEL	GVI GVI TIµń TWA Valeur VME occupantes en raison d'effets Arvo HTP-arvot 8h	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3	Σημείωση Note C2, Valeurs limites indicatives,
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene C2 Valeurs limites indicatives Valeurs limites indicatives Naphthalene S	HR OEL HR OEL HR OEL Báση GR OEL Base FR VLE atégorie 2 - Substances pred dicatives Peruste FI OEL FI OEL Base ES VLA	GVI GVI GVI Tıµń TWA Valeur VME VME Doccupantes en raison d'effets Arvo HTP-arvot 8h HTP-arvot 15 min Valor VLA-ED	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control 10 ppm, 53 mg/m3	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene Valeurs limites indicatives Valeurs limites indicatives Naphthalene S Composants Naphthalene S Componentes Naphthalene	HR OEL HR OEL HR OEL Báση GR OEL Base FR VLE atégorie 2 - Substances pred dicatives Peruste FI OEL FI OEL Base	GVI GVI GVI Tıµń TWA Valeur VME vME occupantes en raison d'effets Arvo HTP-arvot 8h HTP-arvot 15 min Valor	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus Νota
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene Composants Valeurs limites indicatives Valeurs limites indicatives Naphthalene S Componentes	HR OEL HR OEL HR OEL Báση GR OEL Base FR VLE atégorie 2 - Substances pred dicatives Peruste FI OEL FI OEL Base ES VLA	GVI GVI GVI Tıµń TWA Valeur VME VME Doccupantes en raison d'effets Arvo HTP-arvot 8h HTP-arvot 15 min Valor VLA-ED	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control 10 ppm, 53 mg/m3	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus Νota νía dérmica,
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene C2 Valeurs limites indicatives Naphthalene C2 Valeurs limites indicatives Valeurs limites indicatives Naphthalene S Componentes Naphthalene vía dérmica Vía dérmica	HR OEL HR OEL HR OEL Báση GR OEL Base FR VLE atégorie 2 - Substances pred dicatives Peruste FI OEL FI OEL Base ES VLA	GVI GVI GVI Tıµń TWA Valeur VME VME Doccupantes en raison d'effets Arvo HTP-arvot 8h HTP-arvot 15 min Valor VLA-ED	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control 10 ppm, 53 mg/m3	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus Νota νía dérmica,
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene C2 Valeurs limites indicatives Valeurs limites indicatives Indicatives Valeurs limites indicatives S Componentes Naphthalene vía dérmica Vía dérmica	HR OEL HR OEL HR OEL Báση GR OEL Base FR VLE atégorie 2 - Substances pred dicatives Peruste FI OEL FI OEL Base ES VLA	GVI GVI GVI Tıµń TWA Valeur VME VME Doccupantes en raison d'effets Arvo HTP-arvot 8h HTP-arvot 15 min Valor VLA-ED	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control 10 ppm, 53 mg/m3	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus Νota νía dérmica,
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene Cancérigène de cancéride de cancérigène de cancérigène de cancér	HR OEL HR OEL HR OEL Báση GR OEL Base FR VLE atégorie 2 - Substances pred dicatives Peruste FI OEL FI OEL Base ES VLA ES VLA	GVI GVI GVI TIµή TWA Valeur VME Occupantes en raison d'effets Arvo HTP-arvot 8h HTP-arvot 15 min Valor VLA-ED VLA-EC	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control 10 ppm, 53 mg/m3	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus νία dérmica, νία dérmica,
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene Composants Naphthalene Valeurs limites indicatives Indicatives Valeurs limites indicatives Naphthalene S Componentes Naphthalene vía dérmica Vía dérmica E Komponendid, osad Naphthalene	HR OEL HR OEL HR OEL HR OEL Báση GR OEL Base FR VLE atégorie 2 - Substances pred dicatives Peruste FI OEL FI OEL Base ES VLA ES VLA Alused	GVI GVI GVI TIµ́́́ TWA Valeur VME Occupantes en raison d'effets Arvo HTP-arvot 8h HTP-arvot 15 min Valor VLA-ED VLA-EC Väärtus	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control 10 ppm, 53 mg/m3 15 ppm, 80 mg/m3	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus νία dérmica, νία dérmica,
Naphthalene SR Συστατικά Naphthalene FR Composants Naphthalene Composants Naphthalene C2 Cancérigène de ca Valeurs limites indicatives Valeurs limites Valeurs limites indicatives FI Aineosat Naphthalene S Componentes Naphthalene vía dérmica Vía dérmica E Komponendid, osad Naphthalene S	HR OEL HR OEL HR OEL HR OEL Báơŋ GR OEL Base FR VLE atégorie 2 - Substances pred dicatives FI OEL FI OEL FI OEL ES VLA ES VLA ES VLA	GVI GVI GVI TIµ́́ TWA Valeur VME Occupantes en raison d'effets Arvo HTP-arvot 8h HTP-arvot 15 min Valor VLA-ED VLA-ED VLA-EC	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control 10 ppm, 53 mg/m3 15 ppm, 80 mg/m3 Kontrolliparameetrid 10 ppm, 50 mg/m3	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus νía dérmica, vía dérmica, Märkused
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene Composants Naphthalene Valeurs limites indicatives I Aineosat Naphthalene S Componentes Naphthalene vía dérmica Vía dérmica E Komponendid, osad Naphthalene	HR OEL HR OEL HR OEL HR OEL Báơŋ GR OEL Base FR VLE atégorie 2 - Substances pred dicatives Peruste FI OEL FI OEL FI OEL ES VLA ES VLA ES VLA ES VLA EE OEL	GVI GVI GVI GVI TIUÁ TWA Valeur VME Occupantes en raison d'effets Occupantes en raison d'effets OCCUPANTES en raison d'effets VME VAIOT VLA-ED VLA-ED VLA-ED VLA-EC Väärtus Piirnorm	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control 10 ppm, 53 mg/m3 15 ppm, 80 mg/m3 Kontrolliparameetrid 10 ppm, 50 mg/m3	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus νía dérmica, vía dérmica, Märkused Note
Naphthalene SR Συστατικά Naphthalene FR Composants Naphthalene C2 Cancérigène de c. Valeurs limites indicatives FI Aineosat Naphthalene S Componentes Naphthalene vía dérmica Vía dérmica Vía dérmica Vía dérmica Anaphthalene Vía dérmica Vía dérmica Komponendid, osad Naphthalene OK Komponenter Naphthalene	HR OEL HR OEL HR OEL Báơŋ GR OEL Base FR VLE atégorie 2 - Substances pred dicatives FI OEL FI OEL FI OEL ES VLA ES VLA ES VLA ES VLA ES VLA	GVI GVI GVI GVI TIUÁ TWA Valeur VME Occupantes en raison d'effets Occupantes en raison d'effets OCCUPATES HTP-arvot 8h HTP-arvot 15 min Valor VLA-ED VLA-ED VLA-EC Väärtus Piirnorm	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control 10 ppm, 53 mg/m3 15 ppm, 80 mg/m3 Kontrolliparameetrid 10 ppm, 50 mg/m3	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus νía dérmica, vía dérmica, Märkused
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene C2 Cancérigène de c. Valeurs limites indicatives Valeurs limites indicatives FI Aineosat Naphthalene S Componentes Naphthalene vía dérmica Vía dérmica Vía dérmica S Komponendid, osad Naphthalene OK Komponenter Naphthalene	HR OEL HR OEL HR OEL Báơŋ GR OEL Base FR VLE atégorie 2 - Substances pred dicatives FI OEL FI OEL FI OEL ES VLA ES VLA ES VLA ES VLA ES VLA	GVI GVI GVI GVI TIUÁ TWA Valeur VME Occupantes en raison d'effets Occupantes en raison d'effets OCCUPANTES en raison d'effets VME VAIOT VLA-ED VLA-ED VLA-ED VLA-EC Väärtus Piirnorm	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control 10 ppm, 53 mg/m3 15 ppm, 80 mg/m3 Kontrolliparameetrid 10 ppm, 50 mg/m3	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus νía dérmica, vía dérmica, Märkused Note
Naphthalene SR Συστατικά Naphthalene R Composants Naphthalene C2 Cancérigène de c. Valeurs limites indicatives Valeurs limites indicatives I Aineosat Naphthalene S Componentes Naphthalene vía dérmica Vía dérmica Vía dérmica E Komponendid, osad Naphthalene OK Komponenter Naphthalene	HR OEL HR OEL HR OEL Báơŋ GR OEL Base FR VLE atégorie 2 - Substances pred dicatives FI OEL FI OEL FI OEL ES VLA ES VLA ES VLA ES VLA ES VLA	GVI GVI GVI GVI TIUÁ TWA Valeur VME Occupantes en raison d'effets Occupantes en raison d'effets OCCUPANTES HTP-arvot 8h HTP-arvot 15 min Valor VLA-ED VLA-ED VLA-EC Väärtus Piirnorm	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control 10 ppm, 53 mg/m3 15 ppm, 80 mg/m3 Kontrolliparameetrid 10 ppm, 50 mg/m3	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus νía dérmica, vía dérmica, Märkused Note
Naphthalene GR Συστατικά Naphthalene FR Composants Naphthalene C2 Cancérigène de c. Valeurs limites indicatives FI Aineosat Naphthalene valeurs limites valeurs limites indicatives FI Aineosat Naphthalene vía dérmica Vía dérmica Vía dérmica EE Komponendid, osad Naphthalene DK Komponenter Naphthalene	HR OEL HR OEL HR OEL HR OEL Báơŋ GR OEL Base FR VLE atégorie 2 - Substances pred dicatives FI OEL FI OEL FI OEL FI OEL ES VLA ES VLA ES VLA ES VLA ES VLA es VLA es VLA es VLA	GVI GVI GVI GVI TIµ́Ą TWA Valeur VME Occupantes en raison d'effets Arvo HTP-arvot 8h HTP-arvot 8h HTP-arvot 15 min Valor VLA-ED VLA-ED VLA-EC Väärtus Piirnorm	100 ppm, 400 mg/m3 10 ppm, 50 mg/m3 15 ppm, 75 mg/m3 Παράμετροι ελέγχου 10 ppm, 50 mg/m3 Paramètres de contrôle 10 ppm, 50 mg/m3 cancerogenes possibles Valvontaa koskevat muuttujat 1 ppm, 5 mg/m3 2 ppm, 10 mg/m3 Parámetros de control 10 ppm, 53 mg/m3 15 ppm, 80 mg/m3 Kontrolliparameetrid 10 ppm, 50 mg/m3	Σημείωση Νote C2, Valeurs limites indicatives, Huomautus νía dérmica, vía dérmica, Märkused Note

SAFETY DATA SHEET

Version 1.12

		Caucallana	\M/ort	7	Domorlours
nhaltsstoffe		Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Naphthalene		DE TRGS 900	AGW	0,4 ppm, 2 mg/m3	H, Y, Dampf und Aerosole, einatembar Fraktion
	Hautresorptiv Ein Risiko der Frucht nicht befürchtet zu wo		nhaltung des Arbeitsplatzgrer	zwertes und des biologische	
z					
Složky		Základ	Hodnota	Kontrolní parametry	Poznámka
Naphthalene		CZ OEL	PEL	50 mg/m3	
		CZ OEL	NPK-P	100 mg/m3	
Υ					
Συστατικά		Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Naphthalene		CY OEL	TWA	10 ppm, 50 mg/m3	
•				· ·	
H Inhaltsstoffe		Crundlaga	Wert	7ühanwaahanda	Domorkung
Innaitsstorre		Grundlage	vven	Zu überwachende Parameter	Bemerkung
Nanhthalana		CH SUVA	MAK-Wert	10 ppm, 50 mg/m3	H, Carc.Cat.3, NIOSH
Naphthalene	Krebserzeugende Sto		WAK-Weit	10 ppm, 50 mg/m3	OSHA,
озна Съставки	Occupational Safety	and Health Administration Основа	Стойност	Параметри на	Бележка
				контрол	
Naphthalene		BG OEL	TWA	50 mg/m3	
		BG OEL	STEL	75 mg/m3	
E					
Bestanddelen		Basis	Waarde	Controleparameters	Opmerking
Diesel fuel, no	0. 2	BE OEL	TGG 8 hr	100 mg/m3	D,
		BE OEL	TGG 8 hr	100 mg/m3	D, damp en aërosol
Naphthalene		BE OEL BE OEL	TGG 8 hr TGG 15 min	10 ppm, 53 mg/m3 15 ppm, 80 mg/m3	D, D,
T Inhaltsstoffe	kan het gevolg zijn va	an zowel direct contact als Grundlage	zijn aanwezigheid in de lucht	Zu überwachende	Bemerkung
		Cranalago		Parameter	Domontang
Naphthalene		AT OEL	MAK-TMW	10 ppm, 50 mg/m3	Н,
	Besondere Gefahr de				
Názov látky		Č. CAS	Kontrolné parametre	Doba odberu vzorky	Aktualizácia

/ersion 1.12			Revision	Date 2024-05-
Naphthalene	91-20-3	1-hydroxypyrén: 5,66 µg/l V tejto prílohe sú uvedené aj niektoré chemické faktory s karcinogénnym účinkom (kategória 1A a kategória 1B). Pre tieto chemické faktory platí, že dodržanie BMH nevylučuje riziko škodlivých zdravotných účinkov, preto sú určené ako základ pre biomonitoring exponovaných osôb a zdravotný dohľad vykonávaný lekárom pracovnej zdravotnej služby podľa § 13 a prílohy č. 4 nariadenia vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov. (moč) Karcinogén kategórie 1B ()	Koniec vystavenia alebo pracovnej zmeny	2015-04-08
		1-hydroxypyrén: 0.0259 nmol/l V tejto prílohe sú uvedené aj niektoré chemické faktory s karcinogénnym účinkom (kategória 1A a kategória 1B). Pre tieto chemické faktory platí, že dodržanie BMH nevylučuje riziko škodlivých zdravotných účinkov, preto sú určené ako základ pre biomonitoring exponovaných osôb a zdravotný dohľad vykonávaný lekárom pracovnej zdravotnej služby podľa § 13 a prílohy č. 4 nariadenia vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov. (moč)	Koniec vystavenia alebo pracovnej zmeny	2015-04-08
		Karcinogén kategórie 1B () 1-hydroxypyrén: 3.77 µg/g kreatinínu V tejto prílohe sú uvedené aj niektoré chemické faktory s karcinogénnym účinkom (kategória 1A a kategória 1B). Pre tieto chemické faktory platí, že dodržanie BMH nevylučuje riziko škodlivých zdravotných účinkov, preto sú určené ako základ pre biomonitoring exponovaných osôb a zdravotný dohľad vykonávaný lekárom pracovnej zdravotnej služby podľa § 13 a prílohy č. 4 nariadenia vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov. (moč) Karcinogén kategórie 1B ()	Koniec vystavenia alebo pracovnej zmeny	2015-04-08

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	SAFETY DATA SHEE
Diesel No. 2 Test Fuel	
Version 1.12	Revision Date 2024-05-2
kreatinínu V uvedené aj n faktory s karc (kategória 1A tieto chemick dodržanie BM škodlivých zc preto sú urče biomonitoring a zdravotný o lekárom prac služby podľa nariadenia vl republiky č. 3 ochrane zdra pred rizikami expoziciou k mutagénnym znení neskor	rén: 1.95 µmol/mol tejto prílohe sú niektoré chemické cinogénnym účinkom A a kategória 1B). Pre ké faktory platí, že MH nevylučuje riziko dravotných účinkov, ené ako základ pre g exponovaných osôb dohľad vykonávaný covnej zdravotnej a § 13 a prílohy č. 4 lády Slovenskej 356/2006 Z. z. o avia zamestnancov i súvisiacimi s arcrinogénnym a n faktorom pri práci v rších predpisov. (moč) kategórie 1B ()

Substance name	CAS-No.	Control parameters	Sampling time	Update
Naphthalene	91-20-3	1-hydroxypyrene: 4 µmol/mol creatinine (Urine)	After shift	2011-12-18

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.
SDS Number:100000013879		12/55

esel No. 2 Test Fuel		SHE
rsion 1.12	Revision Date 202	4-05-
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.	t
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	Exposure Scenario in the Annex portion	
CTION 9: Physical and chem	al properties	
Information on basic phys	al and chemical properties	
Appearance		
Form Physical state	: liquid	
Physical state Color	: liquid : Pale yellow to brown (if undyed), red to purple (dyed)	
Odor	: Mild	
Safety data		
Flash point	: 47°C (117°F) minimum	
Lower explosion limit	: No data available	
Upper explosion limit	: No data available	
Oxidizing properties	: no	
Autoignition temperature	: No data available	
Molecular formula	: UVCB	
Molecular weight	: Not applicable	
рН	: Not applicable	
Pour point	: No data available	
Melting point/freezing point	No data available	
Boiling point/boiling range	: 191-343°C (376-649°F)	
Vapor pressure	: No data available	
Relative density	: 0,87 at 16 °C (61 °F)	
Density	: 0,75 - 0,90 g/cm3	
Water solubility	: negligible	
S Number:100000013879	13/55	

Diesel No. 2 Test Fuel	SAFETY DATA SHEET
Version 1.12	Revision Date 2024-05-21
Partition coefficient: n-	: No data available
octanol/water Viscosity, kinematic	: 2,55 cSt at 40°C (104°F)
Relative vapor density	: No data available
Evaporation rate	: No data available
Percent volatile	: > 99 %
	100 %
SECTION 10: Stability and reacti	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 rea	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	: Hydrocarbons Carbon oxides
Other data	: No decomposition if stored and applied as directed.
SECTION 11: Toxicological infor	mation
11.1 Information on toxicological	
_	
Acute oral toxicity	1050. > 5000 mg/kg
Diesel fuel, no. 2 SDS Number:100000013879	: LD50: > 5.000 mg/kg 14/55

esel No. 2 Test Fuel	SAFETY DATA SHE
rsion 1.12	Revision Date 2024-05-
	Species: Rat Sex: male and female Method: OECD Test Guideline 401
Naphthalene	LD50: 500 mg/kg Method: Converted acute toxicity point estimate
Acute inhalation toxicity	
Diesel fuel, no. 2	: LC50: 4,1 mg/l Exposure time: 4 h Species: Rat Sex: male and female Test atmosphere: dust/mist Method: OECD Test Guideline 403 Test substance: yes
Acute dermal toxicity	
Diesel fuel, no. 2	: LD50 Dermal: > 4.300 mg/kg Species: Rabbit Sex: male and female Test substance: yes
Diesel No. 2 Test Fuel Skin irritation	: Skin irritation
Diesel No. 2 Test Fuel Eye irritation	: Vapors may cause irritation to the eyes, respiratory system and the skin.
Diesel No. 2 Test Fuel Sensitization	: No data available
Repeated dose toxicity	
Diesel fuel, no. 2	 Species: Rat, Male and female Sex: Male and female Application Route: Dermal Dose: 0, 30, 125, 500 mg/kg Exposure time: 13 wks Number of exposures: daily, 5 days/week NOEL: 30 mg/kg Method: OECD Guideline 411 Target Organs: Thymus, Liver, Bone marrow Information given is based on data obtained from similar substances.
S Number:100000013879	15/55
	10,00

	esel No. 2 Test Fuel	
Sex: Male and female Application Route: inhalation (dust/mist/fume) Dose: 0, 0.35, 0.88, 1.71 mg/l Exposure time: 13 wks Number of exposures: Twice/wk NOEL: > 1,71 mg/l Method: OECD Guideline 413 Genotoxicity in vitro Diesel fuel, no. 2 : Test Type: Ames test Result: positive Test Type: Mouse lymphoma assay Result: negative Naphthalene Test Type: Mouse lymphoma assay Result: negative Test Type: Sister Chromatid Exchange Assay Result: negative Test Type: Unscheduled DNA synthesis assay Result: negative Genotoxicity in vivo Diesel fuel, no. 2 : Test Type: Dominant lethal assay Species: Mouse Dose: 100 or 400 ppm Result: negative Naphthalene Test Type: Mouse micronucleus assay Result: negative Naphthalene Test Type: Mouse micronucleus assay Result: negative Naphthalene Sex: male Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk Remarks: Moderate dermal carcinogen Naphthalene Species: Mouse Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available.	rsion 1.12	Revision Date 2024-05-
Diesel fuel, no. 2 : Test Type: Ames test Result: positive Naphthalene Test Type: Mouse lymphoma assay Result: negative Naphthalene Test Type: Ames test Result: negative Test Type: Sister Chromatid Exchange Assay Result: negative Test Type: Sister Chromatid Exchange Assay Result: negative Diesel fuel, no. 2 : Test Type: Dominant lethal assay Species: Mouse Dose: 100 or 400 ppm Result: negative Naphthalene : Test Type: Mouse micronucleus assay Result: negative Diesel fuel, no. 2 : Species: Mouse Dose: 100 or 400 ppm Result: negative Naphthalene : Test Type: Mouse micronucleus assay Result: negative Naphthalene : Species: Mouse Sex: male Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk Remarks: Moderate dermal carcinogen Naphthalene : Species: Mouse Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available.		Sex: Male and female Application Route: inhalation (dust/mist/fume) Dose: 0, 0.35, 0.88, 1.71 mg/l Exposure time: 13 wks Number of exposures: Twice/wk NOEL: > 1,71 mg/l
Result: positive Test Type: Mouse lymphoma assay Result: negative Naphthalene Test Type: Arnes test Result: negative Test Type: Sister Chromatid Exchange Assay Result: negative Test Type: Unscheduled DNA synthesis assay Result: negative Test Type: Unscheduled DNA synthesis assay Result: negative Genotoxicity in vivo Diesel fuel, no. 2 : Test Type: Dominant lethal assay Species: Mouse Dose: 100 or 400 ppm Result: negative Naphthalene Test Type: Mouse micronucleus assay Result: negative Naphthalene Test Type: Mouse micronucleus assay Result: negative Diesel fuel, no. 2 : Species: Mouse Sex: male Dose: 0, 25 ul Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk Remarks: Moderate dermal carcinogen Naphthalene Species: Mouse Sex: male Dose: 10, 30 ppm Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes <td>Genotoxicity in vitro</td> <td></td>	Genotoxicity in vitro	
Naphthalene Test Type: Ames test Result: negative Test Type: Sister Chromatid Exchange Assay Result: negative Test Type: Unscheduled DNA synthesis assay Result: negative Genotoxicity in vivo Diesel fuel, no. 2 : Test Type: Dominant lethal assay Species: Mouse Dose: 100 or 400 ppm Result: negative Naphthalene Test Type: Mouse micronucleus assay Result: negative Diesel fuel, no. 2 : Species: Mouse Sex: male Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk Remarks: Moderate dermal carcinogen Naphthalene Species: Mouse Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available.	Diesel fuel, no. 2	
Result: negative Test Type: Sister Chromatid Exchange Assay Result: negative Test Type: Unscheduled DNA synthesis assay Result: negative Genotoxicity in vivo Diesel fuel, no. 2 : Test Type: Dominant lethal assay Species: Mouse Dose: 100 or 400 ppm Result: negative Naphthalene Test Type: Mouse micronucleus assay Result: negative Diesel fuel, no. 2 : Species: Mouse Dose: 100 or 400 ppm Result: negative Naphthalene Test Type: Mouse micronucleus assay Result: negative Diesel fuel, no. 2 : Species: Mouse Sex: male Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk Remarks: Moderate dermal carcinogen Naphthalene Species: Mouse Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available. Print Date: No information available.		
Result: negative Test Type: Unscheduled DNA synthesis assay Result: negative Genotoxicity in vivo Diesel fuel, no. 2 : Test Type: Dominant lethal assay Species: Mouse Dose: 100 or 400 ppm Result: negative Naphthalene Test Type: Mouse micronucleus assay Result: negative Carcinogenicity Diesel fuel, no. 2 : Species: Mouse Sex: male Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk Remarks: Moderate dermal carcinogen Naphthalene Species: Mouse Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available.	Naphthalene	
Genotoxicity in vivo Diesel fuel, no. 2 : Test Type: Dominant lethal assay Species: Mouse Dose: 100 or 400 ppm Result: negative Naphthalene Test Type: Mouse micronucleus assay Result: negative Carcinogenicity Diesel fuel, no. 2 Diesel fuel, no. 2 : Species: Mouse Sex: male Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk Remarks: Moderate dermal carcinogen Naphthalene Species: Mouse Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available.		
Diesel fuel, no. 2: Test Type: Dominant lethal assay Species: Mouse Dose: 100 or 400 ppm Result: negativeNaphthaleneTest Type: Mouse micronucleus assay Result: negativeCarcinogenicityImage: CarcinogenicityDiesel fuel, no. 2: Species: Mouse Sex: male Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk Remarks: Moderate dermal carcinogenNaphthaleneSpecies: Mouse Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available.		
Species: Mouse Dose: 100 or 400 ppm Result: negativeNaphthaleneTest Type: Mouse micronucleus assay Result: negativeCarcinogenicityDiesel fuel, no. 2: Species: Mouse Sex: male Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk Remarks: Moderate dermal carcinogenNaphthaleneSpecies: Mouse Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available.	Genotoxicity in vivo	
Result: negative Carcinogenicity Diesel fuel, no. 2 : Species: Mouse Sex: male Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk Remarks: Moderate dermal carcinogen Naphthalene Species: Mouse Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available.	Diesel fuel, no. 2	Species: Mouse Dose: 100 or 400 ppm
Diesel fuel, no. 2: Species: Mouse Sex: male Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk Remarks: Moderate dermal carcinogenNaphthaleneSpecies: Mouse Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available.	Naphthalene	
Sex: male Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk Remarks: Moderate dermal carcinogenNaphthaleneSpecies: Mouse Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available.	Carcinogenicity	
Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available.	Diesel fuel, no. 2	Sex: male Dose: 0, 25 ul Exposure time: lifetime Number of exposures: 3 times/wk
	Naphthalene	Sex: male Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available.
S Number:100000013879 16/55	S Number:100000013879	16/55

SAFETY DATA SHEET

Diesel No. 2 Test Fuel

sion 1.12	Revision Date 2024-05
	Species: Mouse Sex: female Dose: 10, 30 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available. Remarks: increased incidence of alveolar/bronchiolar adenomas
	Species: Rat Sex: male and female Dose: 10, 30, 60 ppm Exposure time: 105 weeks Number of exposures: 6 hours/day, 5 days/week Test substance: yes Print Date: No information available. Remarks: nose respiratory epithelial adenoma, increased incidence of olfactory neuroblastomas
Developmental Toxicity	
Diesel fuel, no. 2	 Species: Rat Application Route: Inhalation Dose: 0, 86.9, 408.8 ppm Number of exposures: 6 h/d Test period: GD 6-15 Method: OECD Guideline 414 NOAEL Teratogenicity: 408.8 ppm NOAEL Maternal: 408.8 ppm Information given is based on data obtained from similar substances.
	Species: Rat Application Route: Dermal Dose: 30, 125, 500, 1000 mg/kg Exposure time: daily Test period: GD 0-20 Method: OECD Guideline 414 NOAEL Teratogenicity: 125 mg/kg Information given is based on data obtained from similar substances.
Naphthalene	Species: Rabbit Application Route: oral gavage Dose: 40, 200, 400 mg/kg Test period: 29 d, GD 6-18 NOAEL Teratogenicity: 400 mg/kg
Diesel No. 2 Test Fuel Aspiration toxicity	: May be fatal if swallowed and enters airways.
Specific Target Organ Toxic Diesel fuel, no. 2	 ity (Repeated Exposure) Target Organs: Liver, Blood, thymus Assessment: May cause damage to organs through prolonged or repeated exposure.
Number:100000013879	17/55

Diesel No. 2 Test Fuel	SAFETY DATA SHEE
Version 1.12	Revision Date 2024-05-2
CMR effects	
Diesel fuel, no. 2	: Carcinogenicity: Limited evidence of carcinogenicity in animal studies Teratogenicity: Animal testing did not show any effects on
	fetal development.
Naphthalene	Carcinogenicity: Limited evidence of carcinogenicity in animal studies
1.2 Information on other haza	rds
Diesel No. 2 Test Fuel Further information Endocrine disrupting properties	 Solvents may degrease the skin. 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.
SECTION 12: Ecological inform	nation
2.1 Toxicity	
Toxicity to fish	
Diesel fuel, no. 2	: LL50: 21 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203
Naphthalene	LC50: 3,2 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
Toxicity to daphnia and of	ther aquatic invertebrates
Diesel fuel, no. 2	: EC50: 2 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202
Naphthalene	LC50: 2,16 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)
Toxicity to algae	
Diesel fuel, no. 2	 ErL50: 22 mg/l Exposure time: 72 h Species: Raphidocellus subcapitata (algae) static test Analytical monitoring: no Method: OECD Test Guideline 201

Diesel No. 2 Test Fuel	SAFETY DATA SHEE				
Version 1.12	Revision Date 2024-05-2				
Naphthalene	EC50: 2,96 mg/l Exposure time: 48 h Species: Selenastrum capricornutum (algae)				
I2.2 Persistence and degradabili	itv				
Biodegradability	•				
Diesel fuel, no. 2	: aerobic Result: Not readily biodegradable. 57,5 % Testing period: 28 d Method: OECD Test Guideline 301F				
12.3 Bioaccumulative potential					
Bioaccumulation					
Diesel fuel, no. 2	: Accumulation in aquatic organisms is expected.				
12.4 Mobility in soil					
Mobility					
Diesel fuel, no. 2	: No data available				
12.5 Results of PBT and vPvB as Results of PBT assessment	 Sessment 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. 				
12.6 Endocrine disrupting prope	rtios				
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 (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 				
12.7 Other adverse effects					
Additional ecological information	: Toxic to aquatic life with long lasting effects.				
12.8 Additional Information					
Ecotoxicology Assessment					
Short-term (acute) aquatic	: Toxic to aquatic life.				
hazard Long-term (chronic) aquatic	: Toxic to aquatic life with long lasting effects.				
SDS Number:100000013879	19/55				

Version 1.12

hazard

SAFETY DATA SHEET

Revision Date 2024-05-21

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) UN1202, DIESEL FUEL, 3, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) UN1202, DIESEL FUEL, 3, III, (47 °C c.c.), MARINE POLLUTANT, (DIESEL FUEL)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN1202, DIESEL FUEL, 3, III

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

UN1202, DIESEL FUEL, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (DIESEL FUEL)

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

SDS Number:100000013879

20/55

Diesel No. 2 Test Fue		SAFETY DATA SHEET			
Version 1.12		Revision Date 2024-05-21			
30,UN1202,DIESEL FUEL, 3, III, ENVIRONMENTALLY HAZARDOUS, (DIESEL FUEL)					
OF DANGEROUS GOODS	MENT CONCERNING THE INTERNATION BY INLAND WATERWAYS) , 3, III, ENVIRONMENTALLY HAZARDOUS				
Maritime transport in bul	c according to IMO instruments				
SECTION 15: Regulatory infor	mation				
National legislation	nmental regulations/legislation specific fo				
	nd of the Council on the Registration, Evalua				
Water hazard class (Germany)	: WGK 2 water endangering				
5.2 Chemical Safety Assessn	nent				
-	Fuels, diesel, no. 2	270-676-1			
Major Accident Hazard Legislation	: 96/82/EC Update: 2003 Flammable. 6 Quantity 1: 5.000 t Quantity 2: 50.000 t				
	: 96/82/EC Update: 2003 Dangerous for the environment 9b Quantity 1: 200 t Quantity 2: 500 t				
	: ZEU_SEVES3 Update: FLAMMABLE LIQUIDS P5c Quantity 1: 5.000 t Quantity 2: 50.000 t				
	: ZEU_SEVES3 Update: ENVIRONMENTAL HAZARDS E2 Quantity 1: 200 t Quantity 2: 500 t				
	: ZEU_SEVES3 Update: Petroleum products: (a) gasolines an kerosenes (including jet fuels), (c) ga fuels, home heating oils and gas oil b heavy fuel oils (e) alternative fuels se	is oils (including diesel blending streams),(d)			

iesel No. 2 Test Fuel	SAFETY DATA SHE			
ersion 1.12	Revision Date 2024-05-			
	and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d) 34 Quantity 1: 2.500 t Quantity 2: 25.000 t			
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AIIC New Zealand NZIoC Japan ENCS Korea KECI	 This product is in full compliance according to REACH regulation 1907/2006/EC. On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory This substance may be used as a single component chemical under an appropriate group standard On the inventory, or in compliance with the inventory All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of Record themselves notified the substances. 			
Philippines PICCS Taiwan TCSI China IECSC	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 			
CTION 16: Other information				
	Health Hazard: 2 Fire Hazard: 2 Reactivity Hazard: 0			
Further information	~			
Legacy SDS Number :	CPC00523			
Significant changes since the las previous versions.	t version are highlighted in the margin. This version replaces all			
The information in this SDS perta	ains only to the product as shipped.			
information and belief at the date guidance for safe handling, use, not to be considered a warranty of	Safety Data Sheet is correct to the best of our knowledge, of its publication. The information given is designed only as a processing, storage, transportation, disposal and release and is or quality specification. The information relates only to the may not be valid for such material used in combination with any , unless specified in the text.			
specific material designated and	may not be valid for such material used in combination with any			

SAFETY DATA SHEET

Version 1.12

Revision Date 2024-05-21

Ľ K	Key or legend to abbreviations and a	cronyms used	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
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.

- H226 Flammable liquid and vapor.
- H228 Flammable solid.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H332 Harmful if inhaled.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H401 Toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

SDS Number:100000013879

Version 1.12

Annex

Annex	
1. Short title of Exposure Scenario: Ma	anufacture
Main User Groups	: SU 3: Industrial uses: Uses of substances as such or in
	preparations at industrial sites
Sector of use	: SU3, SU8, SU9: Industrial Manufacturing (all), Manufacture of
	bulk, large scale chemicals (including petroleum products), Manufacture of fine chemicals
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
	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
Environmental release category	: ERC1: Manufacture of substances
Further information	
	Manufacture of the substance or use as a process chemical or
	extraction agent. Includes recycling/ recovery, material
	transfers, storage, maintenance and loading (including marine
	vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities
	,
2.1 Contributing scenario contro	Iling environmental exposure for:ERC1: Manufacture of
Product characteristics	
Remarks	Substance is complex UVCB., Predominantly hydrophobic.
Maximum allowable site tennage	. 2 200
Maximum allowable site tonnage (MSafe) based on release	: 3.300
following total wastewater	
treatment removal (tonnes/day):	
(Msafe)	
Environment factors not influenced	
Flow rate Dilution Factor (River)	: 18.000 m3/d : 10
Dilution Factor (Coastal Areas)	: 100
Other given operational conditions	affecting environmental exposure
Continuous use/release	מודכנוווש בוועווטוווופוונמו פגאטסטופ
Number of emission days per year	: 300
Emission or Release Factor: Air	: 1 % : 0.003 %
Emission or Release Factor: Water Emission or Release Factor: Soil	: 0,003 % : 0,01 %

24/55

Version 1.12

Revision Date 2024-05-21

Technical conditions and measures	s / Organizational measures
Air	: Treat air emission to provide a typical removal efficiency of
	(%): (Effectiveness: 90 %)
Water	: Treat onsite wastewater (prior to receiving water discharge) to
	provide the required removal efficiency of \geq (%):
	(Effectiveness: 90,3 %)
Remarks	: Common practices vary across sites thus conservative
	process release estimates used.
Water	: If discharging to domestic sewage treatment plant, provide the
	required onsite wastewater removal efficiency of \geq (%):
	(Effectiveness: 0 %)
Remarks	: Risk from environmental exposure is driven by freshwater
	sediment.
Remarks	: Prevent discharge of undissolved substance to or recover
	from onsite wastewater.
Remarks	: If discharging to domestic sewage treatment plant, no onsite
	wastewater treatment required.
Remarks	: Prevent discharge of undissolved substance to or recover
	from wastewater.
Remarks	: Do not apply industrial sludge to natural soils.
Remarks	: Sludge should be incinerated, contained or reclaimed.
Conditions and measures related to	
Type of Sewage Treatment Plant	
Flow rate of sewage treatment	: 10.000 m3/d
plant effluent	. 044.0/
Effectiveness (of a measure) Percentage removed from waste	: 94,1 %
water	. 94,1 %
	o 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 scenario contro	olling worker exposure for: PROC1: Use in closed
process, no likelihood of exposi	• •
• • •	
Product characteristics	
Remarks	Substance is complex UVCB., Predominantly hydrophobic.
i tomanto	
Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Remarks	: With potential for aerosol generation.
i tomanto	
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated
	differently)
	.,
Other operational conditions affect	ing workers exposure
Remarks	: Operation is carried out at elevated temperature (> 20°C
	above ambient temperature)., Assumes a good basic standard
	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.
Technical conditions and measures	of occupational hygiene is implemented.
	of occupational hygiene is implemented.
Handle substance within a closed sy Organizational measures to preven	of occupational hygiene is implemented.

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

SDS Number:100000013879

25/55

SAFETY DATA SHEET

Version 1.12

Revision Date 2024-05-21

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 Control any potential exposure using measures such as contained systems, properly designed and maintained facilities and a good standard of general ventilation. Drain down systems and transfer lines prior to breaking containment. Drain down and flush equipment where possible prior to maintenance. Where there is potential for exposure: Ensure relevant staff are informed of exposure potential and aware of basic actions to minimize exposures; ensure suitable personal protective equipment is available; clear up spills and dispose of waste in accordance with regulatory requirements; monitor effectiveness of control measures; provide regular health surveillance as appropriate; identify and implement corrective actions.

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

Product characteristics

Remarks
Remarks

Remarks

Liquid, vapour pressure < 0.5 kPa at STP
 With potential for aerosol generation.

of occupational hygiene is implemented.

above ambient temperature)., Assumes a good basic standard

Frequency and duration of use

: Covers daily exposures up to 8 hours (unless stated differently)

Other operational conditions affecting workers exposure Remarks : Operation is carried out at elevated temperature (> 20°C

Technical conditions and measures

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

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

Product characteristics Remarks Remarks	:s : Liquid, vapour pressure < 0.5 kPa at STP : With potential for aerosol generation.						
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)						
Other operational conditions affecting workers exposure Remarks : Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.							
Technical conditions and measures Handle substance within a closed sys Organizational measures to prevent No other specific measures identified.	limit releases, dispersion and exposure						
2.2 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises							
Product characteristics							
SDS Number:100000013879 26/55							

Diesel No. 2 Test Fue	
Version 1.12	Revision Date 2024-05-2
Remarks Remarks	 Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation.
Frequency and duration of us	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions a Remarks	 affecting workers exposure Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.
Conditions and measures rela Wear suitable gloves tested to	ated to personal protection, hygiene and health evaluation EN374.
	controlling worker exposure for: PROC8a: Transfer of charging/discharging) from/to vessels/large containers at
Product characteristics	
Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Remarks	: With potential for aerosol generation.
Frequency and duration of us	e
Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions a Remarks	 affecting workers exposure Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.
Drain down system prior to eq Conditions and measures rela Wear chemically resistant glov	uipment opening or maintenance. ated to personal protection, hygiene and health evaluation ves (tested to EN374) in combination with 'basic' employee training.
Drain down system prior to eq Conditions and measures rela Wear chemically resistant glov 2.2 Contributing scenario c substance or preparation (o	uipment opening or maintenance. ated to personal protection, hygiene and health evaluation
Drain down system prior to eq Conditions and measures rela Wear chemically resistant glow 2.2 Contributing scenario c substance or preparation (o dedicated facilities	uipment opening or maintenance. ated to personal protection, hygiene and health evaluation ves (tested to EN374) in combination with 'basic' employee training. controlling worker exposure for: PROC8b: Transfer of
Drain down system prior to eq Conditions and measures rela Wear chemically resistant glow 2.2 Contributing scenario c substance or preparation (o dedicated facilities Product characteristics	uipment opening or maintenance. ated to personal protection, hygiene and health evaluation ves (tested to EN374) in combination with 'basic' employee training. controlling worker exposure for: PROC8b: Transfer of charging/ discharging) from/ to vessels/ large containers at
Drain down system prior to eq Conditions and measures rela Wear chemically resistant glov 2.2 Contributing scenario c substance or preparation (o dedicated facilities	uipment opening or maintenance. ated to personal protection, hygiene and health evaluation ves (tested to EN374) in combination with 'basic' employee training. controlling worker exposure for: PROC8b: Transfer of
Conditions and measures relatives wear chemically resistant glov 2.2 Contributing scenario consubstance or preparation (or dedicated facilities Product characteristics Remarks	 uipment opening or maintenance. ated to personal protection, hygiene and health evaluation res (tested to EN374) in combination with 'basic' employee training. controlling worker exposure for: PROC8b: Transfer of charging/ discharging) from/ to vessels/ large containers at i Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation. e i Covers daily exposures up to 8 hours (unless stated
Drain down system prior to eq Conditions and measures rela Wear chemically resistant glow 2.2 Contributing scenario c substance or preparation (o dedicated facilities Product characteristics Remarks Remarks Frequency and duration of us	<pre>uipment opening or maintenance. ated to personal protection, hygiene and health evaluation wes (tested to EN374) in combination with 'basic' employee training. controlling worker exposure for: PROC8b: Transfer of charging/ discharging) from/ to vessels/ large containers at</pre>
Drain down system prior to eq Conditions and measures rela Wear chemically resistant glow 2.2 Contributing scenario c substance or preparation (o dedicated facilities Product characteristics Remarks Remarks Frequency and duration of us	 uipment opening or maintenance. ated to personal protection, hygiene and health evaluation ves (tested to EN374) in combination with 'basic' employee training. controlling worker exposure for: PROC8b: Transfer of charging/ discharging) from/ to vessels/ large containers at : Liquid, vapour pressure < 0.5 kPa at STP : With potential for aerosol generation. e : Covers daily exposures up to 8 hours (unless stated differently) affecting workers exposure : Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard
Drain down system prior to eq Conditions and measures rela Wear chemically resistant glow 2.2 Contributing scenario c substance or preparation (d dedicated facilities Product characteristics Remarks Remarks Frequency and duration of us Remarks Other operational conditions a Remarks Technical conditions and mea Handle substance within a clos Conditions and measures rela	 uipment opening or maintenance. ated to personal protection, hygiene and health evaluation res (tested to EN374) in combination with 'basic' employee training. controlling worker exposure for: PROC8b: Transfer of charging/ discharging) from/ to vessels/ large containers at : Liquid, vapour pressure < 0.5 kPa at STP : With potential for aerosol generation. e Covers daily exposures up to 8 hours (unless stated differently) affecting workers exposure Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.
Drain down system prior to eq Conditions and measures rela Wear chemically resistant glow 2.2 Contributing scenario c substance or preparation (d dedicated facilities Product characteristics Remarks Remarks Frequency and duration of us Remarks Other operational conditions a Remarks Technical conditions and mea Handle substance within a close	 uipment opening or maintenance. ated to personal protection, hygiene and health evaluation res (tested to EN374) in combination with 'basic' employee training. controlling worker exposure for: PROC8b: Transfer of charging/ discharging) from/ to vessels/ large containers at : Liquid, vapour pressure < 0.5 kPa at STP : With potential for aerosol generation. e Covers daily exposures up to 8 hours (unless stated differently) affecting workers exposure Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.

SAFETY DATA SHEET

Version 1.12

Revision Date 2024-05-21

2.2 Contributing scen reagent	ario controlling worker exposure for: PROC15: Use as laboratory
Product characteristics	
Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Remarks	: With potential for aerosol generation.
Frequency and duration	of use
Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational condi	tions affecting workers exposure
Remarks	 Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.

Organizational measures to prevent /limit releases, dispersion and exposure No other 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):
ERC1	Hydrocarbon Block Method with Petrorisk		Air		0,46 mg/m3	
			Freshwater		0,036 mg/L	0,54
			Freshwater sediment		1,4 mg/kg wet weight	0,61
			Marine water		0,0036 mg/L	0,054
			Marine sediment		0,14 mg/kg wet weight	0,061
			Agricultural soil		0,17 mg/kg wet weight	0,015

ERC1: Manufacture of substances

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	0,01 mg/m3	0,00
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,11
			Worker – long-term – systemic Combined routes		0,11
PROC1, CS85	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,49
PROC2, CS15, CS85	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,47
			Worker – long-term –		0,49
SDS Number:1	00000013879		28/5	55	

SAFETY DATA SHEET

	2 Test Fuel		_	D / 000/07 5
Version 1.12			Revisior	n Date 2024-05-21
		systemic Combined routes		
PROC3, CS15	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	3 mg/m3	0,04
		Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
		Worker – long-term – systemic Combined routes		0,16
PROC3, CS2	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	2,1 mg/m3	0,03
		Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
		Worker – long-term – systemic Combined routes		0,15
PROC4, CS16	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	5 mg/m3	0,07
		Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,47
		Worker – long-term – systemic Combined routes		0,55
PROC8a, CS39	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	2 mg/m3	0,03
		Worker – dermal, long- term – systemic	13,71 mg/kg/d	0,47
		Worker – long-term – systemic Combined routes		0,50
PROC8b, CS501, CS503	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	5 mg/m3	0,07
· · · · · · · · · · · · · · · · · · ·		Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,47
		Worker – long-term – systemic Combined routes		0,55
PROC15, CS36	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	5 mg/m3	0,07
		Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
		Worker – long-term – systemic Combined routes		0,19
CS15: Gener PROC1: Use CS85: Bulk p PROC2: Use CS15: Gener	al exposures (clo in closed proces product storage	no likelihood of exposure	led exposure	
PROC3: Use CS15: Gener	in closed batch p ral exposures (clo in closed batch p	ocess (synthesis or formulation) ed systems) ocess (synthesis or formulation)		
PROC4: Use CS16: Gener PROC8a: Tra	in batch and other al exposures (ope ansfer of substance	r process (synthesis) where opportu n systems) e or preparation (charging/dischargi		
PROC8b: Tra containers at CS501: Bulk	ment cleaning and	e or preparation (charging/ discharg s I unloading	ing) from/ to vesse	els/ large

CS503: Bulk transfers (open systems) PROC15: Use as laboratory reagent CS36: Laboratory activities

SDS Number:100000013879

Version 1.12

Revision Date 2024-05-21

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.

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk Management Measures are based on qualitative risk characterisation.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.

Scaled local assessments for EU refineries have been performed using site-specific data and are attached in PETRORISK file – "Site-Specific Production" worksheet.

If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

Taking into account the findings of the air- monitoring evaluation on benzene included as the Tier 2 analysis in the Low Boiling Point Naphtha category, the default "Air Removal Efficiency" of 90% included in the SPERC has been shown to be over- conservative and that the 95% efficiency can safely be claimed in a Tier II analysis. On this basis, the Tier 2 analysis demonstrates that no refineries have RCRs>1 (see PETRORISK file in IUCLID section 13- "Tier 2 Site Specific Production worksheet").

1. Short title of Exposure Scenario: Di	istribution
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
	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
	PROC9: Transfer of substance or preparation into small
	containers (dedicated filling line, including weighing)
	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 part
	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
SDS Number:100000013879	30/55

Diesel No. 2 Test Fuel	
Version 1.12	Revision Date 2024-05-2
	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, ERC Formulation of preparations, Forr in processes and products, not b inclusion into or onto a matrix, In substance (use of intermediates), use of monomers for manufacture regulators for polymerisation pro industrial use of substances in cl	ling environmental exposure for:ERC1, ERC2, ERC3, C6c, ERC6d, ERC7: Manufacture of substances, nulation in materials, Industrial use of processing aids ecoming part of articles, Industrial use resulting in dustrial use resulting in manufacture of another Industrial use of reactive processing aids, Industrial e of thermoplastics, Industrial use of process cesses in production of resins, rubbers, polymers, osed systems
Product characteristics Remarks	Substance is complex UVCB., Predominantly hydrophobic.
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (tonnes/day): (Msafe)	: 2.900
Environment factors not influenced b	
Flow rate Dilution Factor (River)	: 18.000 m3/d : 10
Dilution Factor (Coastal Areas)	: 100
	ffecting environmental exposure
Continuous use/release	
Continuous use/release Number of emission days per year Emission or Release Factor: Air	: 300 : 0,1 %
Continuous use/release Number of emission days per year	: 300 : 0,1 % : 0,0001 %
Continuous use/release Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil	: 300 : 0,1 % : 0,0001 % : 0,001 %
Continuous use/release Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil	: 300 : 0,1 % : 0,0001 % : 0,001 %
Continuous use/release Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil	 : 300 : 0,1 % : 0,0001 % : 0,001 % Organizational measures : Treat air emission to provide a typical removal efficiency of (%): (Effectiveness: 90 %)
Continuous use/release Number of emission days per year Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil Fechnical conditions and measures Air	 300 0,1 % 0,0001 % 0,001 % 7 Organizational measures Treat air emission to provide a typical removal efficiency of (%): (Effectiveness: 90 %) Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%):
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 Water	 300 0,1 % 0,0001 % 0,001 % Organizational measures Treat air emission to provide a typical removal efficiency of (%): (Effectiveness: 90 %) Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%): (Effectiveness: 0 %) Common practices vary across sites thus conservative process release estimates used.
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 Water Remarks	 300 0,1 % 0,0001 % 0,001 % Organizational measures Treat air emission to provide a typical removal efficiency of (%): (Effectiveness: 90 %) Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%): (Effectiveness: 0 %) Common practices vary across sites thus conservative process release estimates used. If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%):

Diesel No. 2 Test Fuel	SAFETY DATA SHEET
Version 1.12	Revision Date 2024-05-21
Remarks	 from onsite wastewater. Risk from environmental exposure is driven by humans via indirect exposure (primarily ingestion). No wastewater treatment required.
Remarks	 roo wastewater treatment required. Prevent discharge of undissolved substance to or recover from wastewater.
Remarks Remarks	Do not apply industrial sludge to natural soils.Sludge should be incinerated, contained or reclaimed.
Conditions and measures related to	
Type of Sewage Treatment Plant Flow rate of sewage treatment plant effluent	Municipal sewage treatment plant2.000 m3/d
Effectiveness (of a measure) Percentage removed from waste water	
Waste treatment	 external treatment of waste for disposal External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to Recovery Methods	 external recovery of waste External recovery and recycling of waste should comply with applicable local and/or national regulations.
2.2 Contributing scenario control process, no likelihood of exposu	ling worker exposure for: PROC1: Use in closed re
Product characteristics Remarks	Substance is complex UVCB., Predominantly hydrophobic.
Remarks Remarks	 Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation.
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affectir Remarks	 ng 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 they occur. Wash off skin contaminat prevent/minimize exposures and to re- closed system., Store substance with Conditions and measures related to Control any potential exposure using maintained facilities and a good stand prior to breaking containment. Drain Where there is potential for exposure aware of basic actions to minimize ex available; clear up spills and dispose	. Identify potential areas for indirect skin contact. Wear gloves a substance is likely. Clean up contamination/spills as soon as tion immediately. Provide basic employee training to eport any skin effects that may develop., Handle substance within a in a closed system. personal protection, hygiene and health evaluation measures such as contained systems, properly designed and lard of general ventilation. Drain down systems and transfer lines down and flush equipment where possible prior to maintenance. : Ensure relevant staff are informed of exposure potential and posures; ensure suitable personal protective equipment is of waste in accordance with regulatory requirements; monitor povide regular health surveillance as appropriate; identify and
SDS Number:100000013879	32/55

SAFETY DATA SHEET

Version 1.12

continuous process with occa	trolling worker exposure for: PROC2: Use in closed, asional controlled exposure
Product characteristics	
Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Remarks	: With potential for aerosol generation.
Romano	
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated
	differently)
Other operational conditions affe	acting workers exposure
Remarks	: Operation is carried out at elevated temperature (> 20°C
Kemano	above ambient temperature)., Assumes a good basic standard
	of occupational hygiene is implemented.
T I ¹ I	
Technical conditions and measure Handle substance within a closed	res system., Store substance within a closed system.
Fidilule Substance within a closed	
2.2 Contributing scenario con process (synthesis or formula	trolling worker exposure for: PROC3: Use in closed batch ation)
Product characteristics	
Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Remarks	: With potential for aerosol generation.
Hemano	
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated
	differently)
Other operational conditions affe	ecting workers exposure
Remarks	 Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.
Technical conditions and measu	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.
Technical conditions and measure Handle substance within a closed	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system.
Technical conditions and measure Handle substance within a closed	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure
Technical conditions and measure Handle substance within a closed Organizational measures to preven No other specific measures identified	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied.
Technical conditions and measure Handle substance within a closed Organizational measures to prevent No other specific measures identif 2.2 Contributing scenario cont	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure
Technical conditions and measure Handle substance within a closed Organizational measures to preve No other specific measures identif 2.2 Contributing scenario com other process (synthesis) whe	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and
Technical conditions and measure Handle substance within a closed Organizational measures to prevent No other specific measures identif 2.2 Contributing scenario contributing	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises
Technical conditions and measure Handle substance within a closed Organizational measures to preve No other specific measures identif 2.2 Contributing scenario con- other process (synthesis) whe Product characteristics	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and
Technical conditions and measure Handle substance within a closed Organizational measures to preve No other specific measures identif 2.2 Contributing scenario com other process (synthesis) whe Product characteristics Remarks Remarks Remarks	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises : Liquid, vapour pressure < 0.5 kPa at STP
Technical conditions and measure Handle substance within a closed Organizational measures to preve No other specific measures identif 2.2 Contributing scenario com other process (synthesis) whe Product characteristics Remarks Remarks Remarks Frequency and duration of use	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises : Liquid, vapour pressure < 0.5 kPa at STP : With potential for aerosol generation.
Technical conditions and measure Handle substance within a closed Organizational measures to preve No other specific measures identif 2.2 Contributing scenario com other process (synthesis) whe Product characteristics Remarks Remarks Remarks	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises : Liquid, vapour pressure < 0.5 kPa at STP
Technical conditions and measure Handle substance within a closed Organizational measures to preve No other specific measures identif 2.2 Contributing scenario com other process (synthesis) whe Product characteristics Remarks Remarks Remarks Frequency and duration of use Remarks	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises : Liquid, vapour pressure < 0.5 kPa at STP : With potential for aerosol generation. : Covers daily exposures up to 8 hours (unless stated differently)
Technical conditions and measure Handle substance within a closed Organizational measures to preve No other specific measures identif 2.2 Contributing scenario com- other process (synthesis) whe Product characteristics Remarks Remarks Remarks Frequency and duration of use Remarks Other operational conditions affe	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises : Liquid, vapour pressure < 0.5 kPa at STP : With potential for aerosol generation. : Covers daily exposures up to 8 hours (unless stated differently) ecting workers exposure
Technical conditions and measure Handle substance within a closed Organizational measures to preve No other specific measures identif 2.2 Contributing scenario com other process (synthesis) whe Product characteristics Remarks Remarks Remarks Frequency and duration of use Remarks	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises : Liquid, vapour pressure < 0.5 kPa at STP : With potential for aerosol generation. : Covers daily exposures up to 8 hours (unless stated differently)
Technical conditions and measure Handle substance within a closed Organizational measures to preven No other specific measures identif 2.2 Contributing scenario com- other process (synthesis) whe Product characteristics Remarks Remarks Frequency and duration of use Remarks Other operational conditions affer Remarks	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises : Liquid, vapour pressure < 0.5 kPa at STP : With potential for aerosol generation. : Covers daily exposures up to 8 hours (unless stated differently) ecting workers exposure : Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. d to personal protection, hygiene and health evaluation
Technical conditions and measure Handle substance within a closed Organizational measures to preven No other specific measures identif 2.2 Contributing scenario com- other process (synthesis) whe Product characteristics Remarks Remarks Frequency and duration of use Remarks Other operational conditions affer Remarks Conditions and measures related	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises : Liquid, vapour pressure < 0.5 kPa at STP : With potential for aerosol generation. : Covers daily exposures up to 8 hours (unless stated differently) ecting workers exposure : Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. d to personal protection, hygiene and health evaluation

SAFETY DATA SHEET

Version 1.12

	olling worker exposure for: PROC8a: Transfer of ging/discharging) from/to vessels/large containers at
Product characteristics Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Remarks	: With potential for aerosol generation.
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	 ting workers exposure Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.
Wear chemically resistant gloves (te	ent opening or maintenance. o personal protection, hygiene and health evaluation ested to EN374) in combination with 'basic' employee training.
	olling worker exposure for: PROC8b: Transfer of ging/ discharging) from/ to vessels/ large containers at
Product characteristics	
Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Remarks	: With potential for aerosol generation.
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	 ting workers exposure Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.
Technical conditions and measure Handle substance within a closed sy Conditions and measures related to Wear suitable gloves tested to EN3	ystem. o personal protection, hygiene and health evaluation
	olling worker exposure for: PROC9: Transfer of mall containers (dedicated filling line, including
Product characteristics	
Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Remarks	: With potential for aerosol generation.
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
	amororayy
SDS Number:100000013879	34/55

Diesel No	2 Test Fuel					
Version 1.12					Revision	Date 2024-05-2
	onal conditions a	: Ope abo	ters exposure eration is carried of ve ambient tempe ccupational hygie	erature)., As	ted temperatu ssumes a goo	ıre (> 20°C
Wear suitable	d measures relat gloves tested to l ting scenario co	EN374.				
eagent					015. 03e a	stabolatory
Product chara Remarks Remarks	cteristics		uid, vapour pressu			
Frequency and Remarks	d duration of use	: Cov	ers daily exposur erently)	es up to 8 ł	nours (unless	stated
Dther operatic Remarks	onal conditions a	: Ope abo	ters exposure eration is carried c ve ambient tempe ccupational hygie	erature)., As	ssumes a goo	
	I measures to pre		, alopei e.		posulo	
No other spec	estimation and	ntified. reference to	o its source			
No other spec	cific measures ide	ntified.		Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
No other spece Environment Contributing Scenario ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c,	cific measures ider estimation and Exposure Assessment	ntified. reference to Specific	o its source		Level of	characterization
No other spece Exposure Environment Contributing Scenario ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a,	Exposure Assessment Method Hydrocarbon Block Method with	ntified. reference to Specific	Compartment		Level of Exposure 0,024 mg/m3 0,0018 mg/L	characterization
No other spece Exposure Environment Contributing Scenario ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c,	Exposure Assessment Method Hydrocarbon Block Method with	ntified. reference to Specific	Compartment Air Freshwater Freshwater		Level of Exposure 0,024 mg/m3 0,0018 mg/L 1,4 mg/kg wet	characterization ratio (PEC/PNEC)
No other spece Exposure Environment Contributing Scenario ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c,	Exposure Assessment Method Hydrocarbon Block Method with	ntified. reference to Specific	Compartment Air		Level of Exposure 0,024 mg/m3 0,0018 mg/L 1,4 mg/kg wet weight 0,000057	characterization ratio (PEC/PNEC) 0,048
No other spece Exposure Environment Contributing Scenario ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c,	Exposure Assessment Method Hydrocarbon Block Method with	ntified. reference to Specific	Compartment Air Freshwater Freshwater sediment		Level of Exposure 0,024 mg/m3 0,0018 mg/L 1,4 mg/kg wet weight 0,000057 mg/L 0,064 mg/kg	characterization ratio (PEC/PNEC) 0,048 0,055
No other spece 3. Exposure Environment Contributing Scenario ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7	Exposure Assessment Method Hydrocarbon Block Method with Petrorisk	ntified. reference to Specific conditions	D its source		Level of Exposure 0,024 mg/m3 0,0018 mg/L 1,4 mg/kg wet weight 0,000057 mg/L	characterization ratio (PEC/PNEC): 0,048 0,055 0,00083
No other spece 3. Exposure Environment Contributing Scenario ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7 ERC2: Form ERC2: Form ERC3: Form ERC4: Indus ERC6a: Indus	Exposure Assessment Method Hydrocarbon Block Method with Petrorisk Infacture of substan ulation of preparat ulation in materials strial use of proces strial use resulting ustrial use of reacti istrial use of mono ustrial use of proces	ntified. reference to Specific conditions sing aids in p in inclusion in g in manufactu ve processing mers for man iss regulators	D its source	Value type	Level of Exposure 0,024 mg/m3 0,0018 mg/L 1,4 mg/kg wet weight 0,00057 mg/L 0,064 mg/kg wet weight 0,17 mg/kg wet weight 0,17 mg/kg wet weight	characterization ratio (PEC/PNEC): 0,048 0,055 0,00083 0,0019 0,0017 c of articles iates)
No other spect 3. Exposure Environment Contributing Scenario ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7 ERC2: Form ERC2: Form ERC3: Form ERC4: Indus ERC5: Indus ERC6a: Indu ERC6b: Indu ERC6b: Indu ERC6b: Indus ERC6d: Indu ERC6d: Indu ERC6d: Indu ERC6d: Indu ERC6d: Indu ERC6d: Indus ERC7: Indus	Exposure Assessment Method Hydrocarbon Block Method with Petrorisk Infacture of substan ulation of preparat ulation in materials strial use of proces strial use of proces strial use of reacti istrial use of reacti istrial use of proce withing and the substantion istrial use of proces istrial use of proces	ntified. reference to Specific conditions sing aids in p in inclusion in g in manufactu ve processing mers for man iss regulators	D its source	Value type	Level of Exposure 0,024 mg/m3 0,0018 mg/L 1,4 mg/kg wet weight 0,00057 mg/L 0,064 mg/kg wet weight 0,17 mg/kg wet weight 0,17 mg/kg wet weight	characterization ratio (PEC/PNEC) 0,048 0,055 0,00083 0,0019 0,0017 cof articles ates)

SAFETY DATA SHEET

Version 1.12

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	0,01 mg/m3	0,00
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
			Worker – long-term – systemic Combined routes		0,12
PROC1, CS67	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,49
PROC2, CS15, CS67	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,49
PROC3, CS2	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	3 mg/m3	0,04
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
			Worker – long-term – systemic Combined routes		0,16
PROC4, CS16	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	5 mg/m3	0,07
			Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,55
PROC8a, CS39	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	2 mg/m3	0,03
			Worker – dermal, long- term – systemic	13,71 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,50
PROC8b, CS501, CS503	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	5 mg/m3	0,07
			Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,55
PROC9, CS6	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	5 mg/m3	0,07
			Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,55
PROC15, CS36	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	5 mg/m3	0,07
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
			Worker – long-term – systemic Combined routes		0,19
CS15: Gener PROC1: Use CS67: Storag		ed systems) , no likelihood	of exposure	lled exposure	
DS Number:1			36/5		

Version 1.12

Revision Date 2024-05-21

CS15: General exposures (closed systems) CS67: Storage PROC3: Use in closed batch process (synthesis or formulation) CS2: Process sampling 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-dedicated facilities CS39: Equipment cleaning and maintenance PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities CS501: Bulk closed loading and unloading CS503: Bulk transfers (open systems) PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) CS6: Drum and small package filling 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. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation. 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 an intermediate Main User Groups : SU 3: Industrial uses: Uses of substances as such or in preparations at industrial sites SU3, SU8, SU9: Industrial Manufacturing (all), Manufacture of Sector of use ÷ bulk, large scale chemicals (including petroleum products),

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
	PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/
SDS Number:100000013879	37/55

Diesel No. 2 Test Fuel	SAFETY DATA SHEE
Version 1.12	Revision Date 2024-05-2
	discharging) from/ to vessels/ large containers at dedicated facilities PROC15: Use as laboratory reagent
Environmental release category	: ERC6a: Industrial use resulting in manufacture of another substance (use of intermediates)
Further information	: Use of substance as an intermediate (not related to Strictly Controlled Conditions). Includes recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).
esulting in manufacture of anoth	lling environmental exposure for:ERC6a: Industrial use her substance (use of intermediates)
Product characteristics Remarks	Substance is complex UVCB., Predominantly hydrophobic.
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe)	: 410.000
Environment factors not influenced Flow rate	by risk management : 18.000 m3/d
Dilution Factor (River)	: 10.000 m3/d
Dilution Factor (Coastal Areas)	: 100
Other given operational conditions a Continuous use/release	ffecting environmental exposure
Number of emission days per year	: 300
Emission or Release Factor: Air	: 0,1 %
Emission or Release Factor: Water	
Emission or Release Factor: Soil	: 0,1 %
Fechnical conditions and measures	/ Organizational measures : Treat air emission to provide a typical removal efficiency of
Water	 (%): (Effectiveness: 80 %) Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%):
Remarks	 (Effectiveness: 51,6 %) Common practices vary across sites thus conservative process release estimates used.
Water	 If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%): (Effectiveness: 0 %)
Remarks	 Risk from environmental exposure is driven by freshwater sediment.
Remarks	 Prevent discharge of undissolved substance to or recover from onsite wastewater.
Remarks	: If discharging to domestic sewage treatment plant, no onsite wastewater treatment required.
	: Prevent discharge of undissolved substance to or recover from wastewater.
Remarks	
Remarks Remarks Remarks	 Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.

Version 1.12

Revision Date 2024-05-21

SAFETY DATA SHEET

Conditions and measures related to	o municipal sewage treatment plant
	: Municipal sewage treatment plant
Flow rate of sewage treatment	: 2.000 m3/d
plant effluent	04.4.9/
Effectiveness (of a measure) Percentage removed from waste	: 94,1 % : 94,1 %
water	. 34,170
Conditions and measures related to	o external treatment of waste for disposal
Waste treatment	: This substance is consumed during use and no waste of the substance is generated.
Conditions and measures related to	
Recovery Methods	: This substance is consumed during use and no waste of the substance is generated.
2.2 Contributing scenario contro process, no likelihood of exposi	olling worker exposure for: PROC1: Use in closed ure
Product characteristics	
Remarks	Substance is complex UVCB., Predominantly hydrophobic.
Remarks	: Liquid, vapour pressure < 0.5 kPa at STP
Remarks	: With potential for aerosol generation.
Frequency and duration of use Remarks	· Covers doily exposures up to 8 hours (uplace stated
Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect	ing workers exposure
Remarks	: Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.
(tested to EN374) if hand contact with they occur. Wash off skin contaminat prevent/minimize exposures and to re- closed system., Store substance with Conditions and measures related to Control any potential exposure using maintained facilities and a good star prior to breaking containment. Drain Where there is potential for exposure aware of basic actions to minimize en available; clear up spills and dispose	ct. Identify potential areas for indirect skin contact. Wear gloves th substance is likely. Clean up contamination/spills as soon as ation immediately. Provide basic employee training to report any skin effects that may develop., Handle substance within a
2.2 Contributing scenario contro continuous process with occasi	olling worker exposure for: PROC2: Use in closed, onal controlled exposure
Product characteristics	
Remarks Remarks	 Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation.
SDS Number:100000013879	39/55

Diesel No. 2 Test Fuel	
Version 1.12	Revision Date 2024-05-21
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affe Remarks	 Cting workers exposure Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.
Technical conditions and measur Handle substance within a closed	r es system., Store substance within a closed system.
2.2 Contributing scenario con process (synthesis or formula	trolling worker exposure for: PROC3: Use in closed batch tion)
Product characteristics Remarks Remarks	 Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation.
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affe Remarks	ecting workers exposure : Operation is carried out at elevated temperature (> 20°C
	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented.
Technical conditions and measure Handle substance within a closed Organizational measures to prevent No other specific measures identit	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure
Handle substance within a closed Organizational measures to preven No other specific measures identif 2.2 Contributing scenario con	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure
Handle substance within a closed Organizational measures to preven No other specific measures identif 2.2 Contributing scenario con	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and
Handle substance within a closed Organizational measures to prevent No other specific measures identif 2.2 Contributing scenario com other process (synthesis) whe Product characteristics	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises
Handle substance within a closed Organizational measures to prevent No other specific measures identified 2.2 Contributing scenario con- other process (synthesis) whe Product characteristics Remarks Frequency and duration of use	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises : Liquid, vapour pressure < 0.5 kPa at STP : Covers daily exposures up to 8 hours (unless stated differently)
Handle substance within a closed Organizational measures to prevent No other specific measures identif 2.2 Contributing scenario com- other process (synthesis) whe Product characteristics Remarks Frequency and duration of use Remarks Other operational conditions affer Remarks	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises : Liquid, vapour pressure < 0.5 kPa at STP : Covers daily exposures up to 8 hours (unless stated differently) ecting workers exposure : Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. I to personal protection, hygiene and health evaluation
Handle substance within a closed Organizational measures to preven No other specific measures identif 2.2 Contributing scenario com- other process (synthesis) whe Product characteristics Remarks Frequency and duration of use Remarks Other operational conditions affe Remarks Conditions and measures related Wear suitable gloves tested to EN 2.2 Contributing scenario com- substance or preparation (characteristics con- substance or preparation (cha	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises : Liquid, vapour pressure < 0.5 kPa at STP : Covers daily exposures up to 8 hours (unless stated differently) ecting workers exposure : Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. I to personal protection, hygiene and health evaluation
Handle substance within a closed Organizational measures to preven No other specific measures identif 2.2 Contributing scenario com- other process (synthesis) whe Product characteristics Remarks Frequency and duration of use Remarks Other operational conditions affer Remarks Conditions and measures related Wear suitable gloves tested to EN 2.2 Contributing scenario com-	above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. res system. ent /limit releases, dispersion and exposure fied. trolling worker exposure for: PROC4: Use in batch and ere opportunity for exposure arises : Liquid, vapour pressure < 0.5 kPa at STP : Covers daily exposures up to 8 hours (unless stated differently) ecting workers exposure : Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard of occupational hygiene is implemented. I to personal protection, hygiene and health evaluation 1374. trolling worker exposure for: PROC8a: Transfer of

Version 1.12 Revision Date 2024-05-2 Remarks : With potential for aerosol generation. Frequency and duration of use Remarks : Covers daily exposures up to 8 hours (unless stated differently) Other operational conditions affecting workers exposure Remarks : Operation is carried out at elevated temperature (> 20°C above ambient temperature), Assumes a good basic standar of occupational hygiene is implemented. Fechnical conditions and measures Drain down system prior to equipment opening or maintenance. Donations 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: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities Product characteristics Remarks : Liquid, vapour pressure < 0.5 kPa at STP Remarks : Operation is carried out at elevated temperature (> 20°C above ambient temperature), Assumes a good basic standar of occupational is carried out at elevated temperature (> 20°C above ambient temperature), Assumes a good basic standar or occupational hygiene is implemented. Fereduct and measures Handle substance within a closed system. : Conditions and measures related to personal protection, hygiene and health evaluation wear suitable gloves tested to EN374. <tr< th=""><th>Diesel No. 2 Test Fuel</th><th>SAFETY DATA SHEET</th></tr<>	Diesel No. 2 Test Fuel	SAFETY DATA SHEET
Remarks : With potential for aerosol generation. Frequency and duration of use Remarks : Covers daily exposures up to 8 hours (unless stated differently) Other operational conditions affecting workers exposure : Operation is carried out at elevated temperature (> 20°C above ambient temperature), Assumes a good basic standar of occupational hygiene is implemented. Technical conditions and measures : Operation, hygiene and health evaluation Contributing scenario controlling worker exposure for: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at idedicated facilities Product characteristics : Liquid, vapour pressure < 0.5 kPa at STP Remarks Remarks : Uquid, vapour pressure sup to 8 hours (unless stated differently) Other operational conditions and measures : Covers daily exposures up to 8 hours (unless stated differently) Other operational conditions affecting workers exposure Remarks : Covers daily exposures up to 8 hours (unless stated differently) Other operational conditions affecting workers exposure : Operation is carried out at elevated temperature (> 20°C above ambient temperature), Assumes a good basic standar of occupational hygiene is implemented. Remarks : Uperation is carried out at elevated temperature (> 20°C above ambient temperature), Assumes a good basic standar of occupational hygiene is implemented. Preduct characteristics Remarks : Liquid, vapour pressure < 0.5 kPa at STP		Revision Date 2024-05-21
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Remarks : Liquid, vapour pressure < 0.5 kPa at STP		
Remarks : Liquid, vapour pressure < 0.5 kPa at STP	Product characteristics	
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Product characteristics Remarks : Liquid, vapour pressure < 0.5 kPa at STP	Handle substance within a closed sy Conditions and measures related to	ystem. o personal protection, hygiene and health evaluation
Remarks : Liquid, vapour pressure < 0.5 kPa at STP	2.2 Contributing scenario contro	olling worker exposure for: PROC15: Use as laboratory
Remarks : Liquid, vapour pressure < 0.5 kPa at STP	Product characteristics	
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No other specific measures identified. 3. Exposure estimation and reference to its source		: Operation is carried out at elevated temperature (> 20°C above ambient temperature)., Assumes a good basic standard
•		
•		
	3. Exposure estimation and refe	erence to its source

Version 1.12

Revision Date 2024-05-21

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
ERC6a	Hydrocarbon Block Method with Petrorisk		Air		0,022 mg/m3	
			Freshwater		0,0045 mg/L	0,067
			Freshwater sediment		1,5 mg/kg wet weight	0,12
			Marine water		0,000057 mg/L	0,0067
			Marine sediment		0,079 mg/kg wet weight	0,085
			Agricultural soil		0,17 mg/kg wet weight	0,0017
ERC6a: Indu Vorkers/Cons	ustrial use resulting	g in manufacture	e of another sub	ostance (us	e of intermed	liates)
Contributing	Exposure	Specific	Value type	Level	of Exposure	Risk characterization

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	0,01 mg/m3	0,00
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,11
			Worker – long-term – systemic Combined routes		0,11
PROC1, CS85	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,49
PROC2, CS15, CS85	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,49
PROC3, CS15	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	3 mg/m3	0,04
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
			Worker – long-term – systemic Combined routes		0,16
PROC3, CS2	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	2,1 mg/m3	0,03
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
			Worker – long-term – systemic Combined routes		0,15
PROC4, CS16	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	5 mg/m3	0,07
			Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,55
PROC8a, CS39	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	2 mg/m3	0,03
			Worker - dermal, long-	13,71 mg/kg/d	0,47
SDS Number:10	00000013879		42/5	55	

SAFETY DATA SHEET

Varaian 1 10

Revision	Date	2024-05-21
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Version 1.12			Revisio	on Date 2024-05-21
		term – systemic	l	
		Worker – long-term – systemic Combined routes		0,50
PROC8b, CS501, CS503	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	5 mg/m3	0,07
		Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,47
		Worker – long-term – systemic Combined routes		0,55
PROC15, CS36	ECETOC TRA Modified	Worker – inhalation, long-term – systemic	5 mg/m3	0,07
		Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
		Worker – long-term – systemic Combined routes		0,19
CS15: Gener CS85: Bulk p PROC3: Use CS15: Gener PROC3: Use CS2: Process PROC4: Use CS16: Gener PROC8a: Tra at non-dedica CS39: Equipi PROC8b: Tra containers at CS501: Bulk CS503: Bulk PROC15: Us	al exposures (clos roduct storage in closed batch pr al exposures (clos in closed batch pr s sampling in batch and other al exposures (oper ansfer of substance ated facilities ment cleaning and	cess (synthesis or formulation) d systems) cess (synthesis or formulation) process (synthesis) where opportu systems) or preparation (charging/dischargi naintenance or preparation (charging/ discharg unloading tems)	unity for exposure ing) from/to vesse	els/large containers
4. Guidance t by the Expos		ser to evaluate whether he w	orks inside the	e boundaries set

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

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk Management Measures are based on qualitative risk characterisation. 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).

SDS Number:100000013879

43/55

Version 1.12

SAFETY DATA SHEET

Revision Date 2024-05-21

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
	PROC2: Use in closed, continuous process with occasional
	controlled exposure
	PROC3: Use in closed batch process (synthesis or
	formulation)
	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
	PROC16: Using material as fuel sources, limited exposure to
	unburned product to be expected
Environmental release category	: ERC7: Industrial use of substances in closed systems
Further information	Covers the use of a final (or final addition) and instructor
	Covers the use as a fuel (or fuel additive) and includes
	activities associated with its transfer, use, equipment
	maintenance and handling of waste.
-	Iling environmental exposure for:ERC7: Industrial use o
ubstances in closed systems	
Product characteristics	
Remarks	Substance is complex UVCB., Predominantly hydrophobic.
Maximum allowable site tonnage	: 5.000
(MSafe) based on release	. 0.000
tollowing total wastewater	
following total wastewater	
treatment removal (tonnes/day):	
5	
treatment removal (tonnes/day): (Msafe)	hv risk management
treatment removal (tonnes/day): (Msafe)	
treatment removal (tonnes/day): (Msafe) Environment factors not influenced Flow rate	: 18.000 m3/d
treatment removal (tonnes/day): (Msafe) Environment factors not influenced Flow rate Dilution Factor (River)	: 18.000 m3/d : 10
treatment removal (tonnes/day): (Msafe) Environment factors not influenced Flow rate	: 18.000 m3/d
treatment removal (tonnes/day): (Msafe) Environment factors not influenced Flow rate Dilution Factor (River)	: 18.000 m3/d : 10 : 100
treatment removal (tonnes/day): (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions	: 18.000 m3/d : 10 : 100
treatment removal (tonnes/day): (Msafe) Environment factors not influenced Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas) Other given operational conditions Continuous use/release	i 18.000 m3/d i 10 i 100 affecting environmental exposure
treatment removal (tonnes/day): (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	: 18.000 m3/d : 10 : 100 affecting environmental exposure : 300
treatment removal (tonnes/day): (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 Emission or Release Factor: Air	 18.000 m3/d 10 100 affecting environmental exposure 300 0,5 %
treatment removal (tonnes/day): (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 Emission or Release Factor: Air Emission or Release Factor: Water	 18.000 m3/d 10 100 affecting environmental exposure 300 0,5 % 0,001 %
treatment removal (tonnes/day): (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 Emission or Release Factor: Air	 18.000 m3/d 10 100 affecting environmental exposure 300 0,5 % 0,001 %
treatment removal (tonnes/day): (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 Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil	 18.000 m3/d 10 100 affecting environmental exposure 300 0,5 % 0,001 % 0 % / Organizational measures
treatment removal (tonnes/day): (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 Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil	 18.000 m3/d 10 100 affecting environmental exposure 300 0,5 % 0,001 % 0 %
treatment removal (tonnes/day): (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 Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil	 18.000 m3/d 10 100 affecting environmental exposure 300 0,5 % 0,001 % 0 % / Organizational measures
treatment removal (tonnes/day): (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 Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil	 18.000 m3/d 10 100 affecting environmental exposure 300 0,5 % 0,001 % 0 % / Organizational measures Treat air emission to provide a typical removal efficiency of (%): (Effectiveness: 95 %)
treatment removal (tonnes/day): (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 Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil Fechnical conditions and measures Air	 18.000 m3/d 10 100 affecting environmental exposure 300 0,5 % 0,001 % 0 % / Organizational measures Treat air emission to provide a typical removal efficiency of (%): (Effectiveness: 95 %) Treat onsite wastewater (prior to receiving water discharge) to
treatment removal (tonnes/day): (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 Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil Fechnical conditions and measures Air	 18.000 m3/d 10 100 affecting environmental exposure 300 0,5 % 0,001 % 0 % / Organizational measures Treat air emission to provide a typical removal efficiency of (%): (Effectiveness: 95 %) Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of ≥ (%):
treatment removal (tonnes/day): (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 Emission or Release Factor: Air Emission or Release Factor: Water Emission or Release Factor: Soil Fechnical conditions and measures Air	 18.000 m3/d 10 100 affecting environmental exposure 300 0,5 % 0,001 % 0 % / Organizational measures Treat air emission to provide a typical removal efficiency of (%): (Effectiveness: 95 %) Treat onsite wastewater (prior to receiving water discharge) to

Diesel No. 2 Test Fuel	
Version 1.12	Revision Date 2024-05-2
Water	 process release estimates used. If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%):
Remarks	 (Effectiveness: 60,4 %) Risk from environmental exposure is driven by freshwater sediment.
Remarks	 If discharging to domestic sewage treatment plant, no onsite wastewater treatment required.
Remarks	 Prevent discharge of undissolved substance to or recover from wastewater.
Remarks Remarks	Do not apply industrial sludge to natural soils.Sludge should be incinerated, contained or reclaimed.
Type of Sewage Treatment Plant Flow rate of sewage treatment plant effluent	 o municipal sewage treatment plant Municipal sewage treatment plant 2.000 m3/d 94,1 % 97,7 %
Conditions and measures related to	o external treatment of waste for disposal
Remarks Remarks	 Combustion emissions limited by required exhaust emission controls. Combustion emissions considered in regional exposure
	o external recovery of waste : External recovery and recycling of waste should comply with
Recovery Methods 2.2 Contributing scenario contro	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
Recovery Methods 2.2 Contributing scenario contro process, no likelihood of expos	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
Recovery Methods 2.2 Contributing scenario contro process, no likelihood of expos Product characteristics	: External recovery and recycling of waste should comply with applicable local and/or national regulations. olling worker exposure for: PROC1: Use in closed ure
Recovery Methods 2.2 Contributing scenario controprocess, no likelihood of expos Product characteristics Remarks Remarks Remarks	 External recovery and recycling of waste should comply with applicable local and/or national regulations. olling worker exposure for: PROC1: Use in closed ure Substance is complex UVCB., Predominantly hydrophobic. Liquid, vapour pressure < 0.5 kPa at STP
Recovery Methods 2.2 Contributing scenario controprocess, no likelihood of expos Product characteristics Remarks Remarks Remarks Frequency and duration of use	 External recovery and recycling of waste should comply with applicable local and/or national regulations. olling worker exposure for: PROC1: Use in closed ure Substance is complex UVCB., Predominantly hydrophobic. Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation. Covers daily exposures up to 8 hours (unless stated differently) ing workers exposure Assumes use at not more than 20°C above ambient
Recovery Methods 2.2 Contributing scenario contreprocess, no likelihood of expos Product characteristics Remarks Remarks Remarks Frequency and duration of use Remarks Other operational conditions affect Remarks Technical conditions and measures Avoid direct skin contact with produc (tested to EN374) if hand contact wi they occur. Wash off skin contamin prevent/minimize exposures and to closed system. Organizational measures to preven No other specific measures identifie	 External recovery and recycling of waste should comply with applicable local and/or national regulations. colling worker exposure for: PROC1: Use in closed ure Substance is complex UVCB., Predominantly hydrophobic. Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation. Covers daily exposures up to 8 hours (unless stated differently) ing 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. s ct. Identify potential areas for indirect skin contact. Wear gloves th substance is likely. Clean up contamination/spills as soon as ation immediately. Provide basic employee training to report any skin effects that may develop., Store substance within a tt /limit releases, dispersion and exposure
Recovery Methods 2.2 Contributing scenario contreprocess, no likelihood of expos Product characteristics Remarks Remarks Remarks Frequency and duration of use Remarks Other operational conditions affect Remarks Technical conditions and measures Avoid direct skin contact with produc (tested to EN374) if hand contact wit they occur. Wash off skin contamin prevent/minimize exposures and to closed system. Organizational measures to preven No other specific measures identifie Conditions and measures related to Control any potential exposure using	 External recovery and recycling of waste should comply with applicable local and/or national regulations. colling worker exposure for: PROC1: Use in closed ure Substance is complex UVCB., Predominantly hydrophobic. Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation. Covers daily exposures up to 8 hours (unless stated differently) covers daily exposures up to 8 hours (unless stated differently) Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic standard of occupational hygiene is implemented. Identify potential areas for indirect skin contact. Wear gloves th substance is likely. Clean up contamination/spills as soon as ation immediately. Provide basic employee training to report any skin effects that may develop., Store substance within a tt /limit releases, dispersion and exposure

Version 1.12 Revision Date 2024-05-21 prior to breaking containment. Drain down and flush equipment where possible prior to maintenance. Where there is potential for exposure: Ensure relevant staff are informed of exposure potential and aware of basic actions to minimize exposures; ensure sublable personal protective equipment is available; clear up spills and dispose of waste in accordance with regulatory requirements; monitor effectiveness of control measures; provide regular health surveillance as appropriate; identify and implement corrective actions. 2.2 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure Product characteristics Remarks : Liquid, vapour pressure < 0.5 kPa at STP Remarks : With potential for aerosol generation. Frequency and duration of use Resumes use at not more than 20°C above ambient temperature, unless stated differently, Assumes use a good basic standard of occupational hygiene is implemented. 2.2 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation) Product characteristics : Liquid, vapour pressure < 0.5 kPa at STP Remarks : Liquid, vapour pressure < 0.5 kPa at STP Remarks : Liquid, vapour pressure < 0.5 kPa at STP Remarks : Liquid, vapour pressure < 0.5 kPa at STP Remarks : Covers daily exposures up to 8 hours (unless stated differ		SAFETY DATA SHEET
prior to breaking containment. Drain down and flush equipment where possible prior to maintenance. Where there is potential for exposure: Ensure relevant staff are informed of exposure potential and aware of basic actions to minimize exposure; ensure suitable personal protective equipment is available; clear up splits and dispose of waste in accordance with regulatory requirements; monitor effectiveness of control measures; provide regular health surveillance as appropriate; identify and implement corrective actions. 2.2 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure Product characteristics Remarks : Remarks : Covers daily exposures up to 8 hours (unless stated differently). Other operational conditions affecting worker exposure for: PROC3: Use in closed basic standard of occupational hygiene is implemented. Technical conditions affecting worker exposure Remarks : Covers daily exposures up to 8 hours (unless stated differently, Assumes a good basic standard of occupational hygiene is implemented. Technical conditions and measures Store substance within a closed system. 2.2 Contributing scenario controlling worker exposure for: PROC3: Use in closed back process (synthesis or formulation) Product characteristics Remarks : Liquid, vapour pressure < 0.5 kPa at STP	Diesel No. 2 Test Fuel	
Where there is potential for exposure: Ensure relevant staff are informed of exposure potential and aware of basic actions to minimize exposures; ensure suitable personal protective equipment is available; clear up spills and dispose of waste in accordance with regulatory requirements; monitor effectiveness of control measures; provide regular health surveillance as appropriate; identify and implement corrective actions. 2.2 Contributing scenario controlling worker exposure for: PROC2: Use in closed, continuous process with occasional controlled exposure continuous process with occasional controlled exposure Remarks Eliquid, vapour pressure < 0.5 kPa at STP	Version 1.12	Revision Date 2024-05-21
Product characteristics Eliquid, vapour pressure < 0.5 kPa at STP	Where there is potential for exposure: aware of basic actions to minimize exp available; clear up spills and dispose o effectiveness of control measures; pro- implement corrective actions. 2.2 Contributing scenario controll	Ensure relevant staff are informed of exposure potential and bosures; ensure suitable personal protective equipment is if waste in accordance with regulatory requirements; monitor vide regular health surveillance as appropriate; identify and ing worker exposure for: PROC2: Use in closed,
Remarks : Liquid, vapour pressure < 0.5 kPa at STP	continuous process with occasior	al controlled exposure
Remarks : With potential for aerosol generation. Frequency and duration of use Remarks : Covers daily exposures up to 8 hours (unless stated differently) Other operational conditions affecting worker 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. Technical conditions and measures Store substance within a closed system. : 2.2 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation) Product characteristics Remarks : Liquid, vapour pressure < 0.5 kPa at STP Remarks Remarks : With potential for aerosol generation. 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 No other specific measures identified. : 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 Remarks : Liquid, vapour pressure < 0.5 kPa at STP Remarks Remarks : Liquid,	Product characteristics	
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. Technical conditions and measures Store substance within a closed system. : 22 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation) Product characteristics Remarks : Liquid, vapour pressure < 0.5 kPa at STP Remarks Remarks : Liquid, vapour pressure < 0.5 kPa at STP	Remarks	
Remarks : Covers daily exposures up to 8 hours (unless stated differently) Other operational conditions affecting workers exposure Remarks 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. 2.2 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation) Product characteristics Remarks : Liquid, vapour pressure < 0.5 kPa at STP	Remarks	
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. 2.2 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation) Product characteristics Remarks : Remarks : With potential for aerosol generation. 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 No other specific measures identified. 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 : Remarks : Remarks : Liquid, vapour pressure < 0.5 kPa at STP	Frequency and duration of use Remarks	
Store substance within a closed system. 2.2 Contributing scenario controlling worker exposure for: PROC3: Use in closed batch process (synthesis or formulation) Product characteristics Remarks : Liquid, vapour pressure < 0.5 kPa at STP		: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic
process (synthesis or formulation) Product characteristics Remarks : Liquid, vapour pressure < 0.5 kPa at STP		
Remarks : Liquid, vapour pressure < 0.5 kPa at STP		
Remarks : Liquid, vapour pressure < 0.5 kPa at STP		
Remarks : With potential for aerosol generation. 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 No other specific measures identified. : Covers daily exposure for: PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities Product characteristics Remarks : Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation. Frequency and duration of use Remarks : With potential for aerosol generation. Frequency and duration of use Remarks : Covers daily exposures up to 8 hours (unless stated differently)		\cdot Liquid vanour procedure < 0.5 kPa at STP
Remarks : Covers daily exposures up to 8 hours (unless stated differently) Other operational conditions affecting workers exposure Remarks 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 No other specific measures identified. 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 : Liquid, vapour pressure < 0.5 kPa at STP		
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 No other specific measures identified. 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 Remarks : Liquid, vapour pressure < 0.5 kPa at STP	Frequency and duration of use Remarks	
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 No other specific measures identified. 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 Remarks : Liquid, vapour pressure < 0.5 kPa at STP		
No other specific measures identified. 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 Remarks : Liquid, vapour pressure < 0.5 kPa at STP		: Assumes use at not more than 20°C above ambient temperature, unless stated differently., Assumes a good basic
substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities Product characteristics Remarks : Liquid, vapour pressure < 0.5 kPa at STP		imit releases, dispersion and exposure
Remarks : Liquid, vapour pressure < 0.5 kPa at STP		
Remarks : Liquid, vapour pressure < 0.5 kPa at STP		
Remarks : Covers daily exposures up to 8 hours (unless stated differently)		
SDS Number:100000013879 46/55		
	Remarks Remarks Frequency and duration of use	With potential for aerosol generation.Covers daily exposures up to 8 hours (unless stated

	. 2 Test Fuel				SAFE	TY DATA SHEET
Version 1.12					Revision	Date 2024-05-21
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Other operation Remarks	onal conditions a	: Ass tem	kers exposure sumes use at not r aperature, unless s ndard of occupatio	stated differ	ently., Assum	es a good basic
Drain down s Conditions an	ditions and measystem prior to equ d measures related ally resistant glove	ipment openi ted to persor	nal protection, hy	giene and		
	ting scenario co r preparation (c cilities					
Product chara Remarks	cteristics		uid, vapour pressu			
Remarks		: vvit	h potential for aer	usoi genera	uon.	
Frequency and Remarks	d duration of use	: Cov	vers daily exposur erently)	es up to 8 h	ours (unless	stated
Other operation Remarks	onal conditions a	: Ass tem	kers exposure sumes use at not r operature, unless s ndard of occupatio	stated differ	ently., Assum	es a good basic
Wear suitable	d measures related to the gloves tested to the the scenario content of the sce	EN374.				
	, limited exposi					
Product chara	octeristics	· Liqu	uid, vapour pressu	re < 0.5 kP		
Remarks			h potential for aer			
Remarks Remarks	d duration of use	: Witt	h potential for aero	osol genera	tion.	stated
Remarks Remarks Frequency and Remarks	d duration of use	: Witi : Cov diffe	h potential for aero vers daily exposur erently)	osol genera	tion.	stated
Remarks Remarks Frequency and Remarks		: With : Cov diffe : Ass tem	h potential for aero vers daily exposur erently)	osol genera es up to 8 h nore than 2 stated differe	tion. ours (unless 0°C above ar ently., Assum	nbient es a good basic
Remarks Remarks Frequency and Remarks Other operation Remarks Organizationa	d duration of use	: With : Cow diffe : Ass tem star event /limit re	h potential for aero vers daily exposur erently) kers exposure sumes use at not r perature, unless s ndard of occupatio	osol genera es up to 8 h nore than 2 stated differ nal hygiene	tion. ours (unless 0°C above ar ently., Assum e is implemen	nbient es a good basic
Remarks Remarks Frequency and Remarks Other operation Remarks Organizationa No other spec	d duration of use onal conditions a I measures to pr	: With : Cow diffe : Cow diffe : Ass tem star event /limit re ntified.	h potential for aero vers daily exposur erently) kers exposure sumes use at not r perature, unless s ndard of occupatio eleases, dispersi	osol genera es up to 8 h nore than 2 stated differ nal hygiene	tion. ours (unless 0°C above ar ently., Assum e is implemen	nbient es a good basic
Remarks Remarks Frequency and Remarks Other operation Remarks Organizationa No other spect	d duration of use onal conditions a Il measures to pr cific measures ide	: With : Cow diffe : Cow diffe : Ass tem star event /limit re ntified.	h potential for aero vers daily exposur erently) kers exposure sumes use at not r perature, unless s ndard of occupatio eleases, dispersi	osol genera es up to 8 h nore than 2 stated differ nal hygiene	tion. ours (unless 0°C above ar ently., Assum e is implemen	nbient es a good basic
Remarks Remarks Frequency and Remarks Other operation Remarks Organizationa No other spec	d duration of use onal conditions a Il measures to pr cific measures ide	: With : Cow diffe : Cow diffe : Ass tem star event /limit re ntified.	h potential for aero vers daily exposur erently) kers exposure sumes use at not r perature, unless s ndard of occupatio eleases, dispersi	osol genera es up to 8 h nore than 2 stated differ nal hygiene	tion. ours (unless 0°C above ar ently., Assum e is implemen	nbient es a good basic
Remarks Remarks Frequency and Remarks Other operation Remarks Organizationa No other spect 3. Exposure Environment Contributing	d duration of use onal conditions a al measures to pr cific measures ide estimation and Exposure Assessment Method Hydrocarbon Block	: With : Cov diffecting work : Ass tem star event /limit re ntified. reference to Specific	h potential for aero vers daily exposur erently) kers exposure sumes use at not r perature, unless s ndard of occupation eleases, dispersion o its source	osol genera es up to 8 h nore than 2 stated differ onal hygiene on and exp	tion. ours (unless 0°C above ar ently., Assum e is implemen bosure	nbient es a good basic ted. Risk

SAFETY DATA SHEET

Version 1.12

Method with Petrorisk			
	Freshwater	0,055 mg/L	0,8
	Freshwater sediment	2,1 mg/kg wet weight	0,91
	Marine water	0,0055 mg/L	0,08
	Marine sediment	0,21 mg/kg wet weight	0,091
	Agricultural soil	0,17 mg/kg wet weight	0,01

ERC7: Industrial use of substances in closed systems

Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterizatior ratio (PEC/PNEC):
PROC1, CS15	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,49
PROC1, CS67	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	0,14 mg/kg/d	0,05
			Worker – long-term – systemic Combined routes		0,06
PROC2, CS15	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	1,37 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,49
PROC2, CS67	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	0,14 mg/kg/d	0,05
			Worker – long-term – systemic Combined routes		0,06
PROC3, CS107	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
			Worker – long-term – systemic Combined routes		0,13
PROC8a, CS39, CS103	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	13,71 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,49
PROC8b, CS8, CS14	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	5 mg/m3	0,07
			Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,55
PROC16, CS107	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,03
			Worker – dermal, long- term – systemic	0,03 mg/kg/d	0,01
			Worker - long-term -		0,02

SAFETY DATA SHEET

Version 1.12

Revision Date 2024-05-21

Version 1.12	Revision Date 2024-05-21
	systemic Combined routes
CS15: General exposures (closed syst PROC2: Use in closed, continuous pro CS67: Storage PROC3: Use in closed batch process CS107: (closed systems) PROC8a: Transfer of substance or pre at non-dedicated facilities CS39: Equipment cleaning and mainte CS103: Vessel and container cleaning PROC8b: Transfer of substance or pre containers at dedicated facilities CS8: Drum/batch transfers CS14: Bulk transfers	ams) ihood of exposure ess with occasional controlled exposure ms) ess with occasional controlled exposure ynthesis or formulation) earation (charging/discharging) from/to vessels/large containers
4. Guidance to Downstream User t by the Exposure Scenario	evaluate whether he works inside the boundaries set
Measures/Operational Conditions of Where other Risk Management Mea ensure that risks are managed to at Available hazard data do not enable Available hazard data do not suppor effects. Risk Management Measures are ba assumed operating conditions which	ures/Operational Conditions are adopted, then users should
either alone or in combination. Required removal efficiency for air c combination.	ewater can be achieved using onsite/offsite technologies, n be achieved using on-site technologies, either alone or in technologies are provided in SpERC factsheet s-libraries.html).
1. Short title of Exposure Scenario: Use	s a fuel – professional
Main User Groups : Sector of use : Process category :	 SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen) SU 22: Professional uses: Public domain (administration, education, entertainment, services, craftsmen) 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) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
SDS Number:100000013879	49/55

Diesel No. 2 Test Fuel	SAFETY DATA SHEE
Version 1.12	Revision Date 2024-05-2
Environmental release category	 PROC8b: Transfer of substance or preparation (charging/discharging) from/ to vessels/ large containers at dedicated facilities PROC16: Using material as fuel sources, limited exposure to unburned product to be expected ERC9a, ERC9b: 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.
2.1 Contributing scenario controll	ing environmental exposure for:ERC9a, ERC9b: Wide
	ces in closed systems, Wide dispersive outdoor use of
Product characteristics Remarks	Substance is complex UVCB., Predominantly hydrophobic.
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d):(Msafe)	: 140.000
Environment factors not influenced b	
Flow rate Dilution Factor (River) Dilution Factor (Coastal Areas)	: 18.000 m3/d : 10 : 100
· · · · ·	
Other given operational conditions at Continuous use/release Number of emission days per year	: 365
Technical conditions and measures /	Organizational measures
Air	 Release fraction to air from wide dispersive use (regional use only)
Remarks	: < 0.001 %
Water	: Release fraction to wastewater wide dispersive use
Remarks Soil	 : < 0.001 % : Release fraction to soil from wide dispersive use (regional use)
	only)
Remarks	: < 0.001 %
Remarks	: Common practices vary across sites thus conservative process release estimates used.
Remarks	: Risk from environmental exposure is driven by humans via indirect exposure (primarily ingestion).
Remarks Air	 No wastewater treatment required. 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 ≥ (%): (Effectiveness: 0 %)
Water	 (Effectiveness: 0 %) : If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of ≥ (%):

Version 1.12	Revision Date 2024-05-21
Remarks Remarks Remarks	 (Effectiveness: 0 %) Prevent discharge of undissolved substance to or recover from wastewater. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.
	to municipal sewage treatment plant t : Municipal sewage treatment plant : 2.000 m3/d : 94,1 %
Conditions and measures related Remarks Remarks	 I to external treatment of waste for disposal Combustion emissions limited by required exhaust emission controls. Combustion emissions considered in regional exposure assessment.
Conditions and measures related Recovery Methods	 I to external recovery of waste External recovery and recycling of waste should comply with applicable local and/or national regulations.
Remarks Remarks Remarks	 Substance is complex UVCB., Predominantly hydrophobic. Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation.
Frequency and duration of use	
Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
	differently)
Remarks Other operational conditions affe Remarks Technical conditions and measur Avoid direct skin contact with proc (tested to EN374) if hand contact they occur. Wash off skin contam prevent/minimize exposures and t	 differently) ecting 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.
Remarks Other operational conditions afferent Remarks Technical conditions and measure Avoid direct skin contact with proce (tested to EN374) if hand contact they occur. Wash off skin contam prevent/minimize exposures and t closed system. Organizational measures to prevent No other specific measures identifi Conditions and measures related Control any potential exposure us maintained facilities and a good si prior to breaking containment. Dr Where there is potential for expos aware of basic actions to minimize available; clear up spills and disponent	 differently) ecting 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. res duct. Identify potential areas for indirect skin contact. Wear gloves with substance is likely. Clean up contamination/spills as soon as hination immediately. Provide basic employee training to to report any skin effects that may develop., Store substance within a ent /limit releases, dispersion and exposure

SAFETY DATA SHEET

Version 1.12

Revision Date 2024-05-21

Product characteristics Remarks Remarks	 Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation.
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	 ing 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 preven No other specific measures identified	t /limit releases, dispersion and exposure d.
2.2 Contributing scenario contro process (synthesis or formulation	olling worker exposure for: PROC3: Use in closed batch on)
Product characteristics	
Remarks Remarks	 Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation.
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	 ing 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 preven No other specific measures identified	t /limit releases, dispersion and exposure d.
	olling worker exposure for: PROC8a: Transfer of jing/discharging) from/to vessels/large containers at
Product characteristics	
Remarks Remarks	 Liquid, vapour pressure < 0.5 kPa at STP With potential for aerosol generation.
Frequency and duration of use Remarks	: Covers daily exposures up to 8 hours (unless stated differently)
Other operational conditions affect Remarks	 ing 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.
Conditions and massures related to	o personal protection, hygiene and health evaluation
Conditions and measures related to	· · · · · · · · · · · · · · · · · · ·

SAFETY DATA SHEET

Version 1.12

Revision Date 2024-05-21

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

	ing scenario co preparation (c cilities					
Product chara Remarks Remarks	cteristics		id, vapour pressu potential for aer			
Frequency and Remarks	d duration of use	: Cove	ers daily exposur rently)	es up to 8 ł	nours (unless	stated
Dther operatio Remarks	nal conditions a	: Assutemp	ers exposure umes use at not r perature, unless s dard of occupatio	stated differ	ently., Assum	ies a good basic
	d measures relat gloves tested to l		al protection, hy	giene and	health evalu	ation
	ing scenario co limited exposu					material as
Product chara Remarks Remarks	cteristics		id, vapour pressu potential for aer			
Frequency and Remarks	d duration of use	: Cove	ers daily exposur rently)	es up to 8 ł	nours (unless	stated
Other operatio Remarks	nal conditions a	: Assutemp	ers exposure umes use at not r perature, unless s dard of occupatio	stated differ	ently., Assum	ies a good basio
Provide a goo operation is u	ditions and meas od standard of gen ndertaken outdoo estimation and	eral ventilation rs.		to 5 air cha	anges per hou	ur), Ensure
Environment	Fundation	Ca a sifia	Comportment		Level of	Diale
Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC)
ERC9a, ERC9b	Hydrocarbon Block Method with Petrorisk		Air		0,02 mg/m3	
			Freshwater Freshwater sediment		0,0015 mg/L 1,4 mg/kg wet weight	0,043 0,05
			Marine water Marine sediment		0,000028 mg/L 0,063 mg/kg wet weight	0,00041

SDS Number:100000013879

wet weight

SAFETY DATA SHEET

Version 1.12

Revision Date 2024-05-21

0,0054

			Agricultural soil		0,17 mg/kg wet weight	(
ERC9a: Wide	e dispersive indoc	or use of substa	nces in closed s	systems		
	املاريم مرامعهم أمار		اممممه أبم ماممها			

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 characterizatior ratio (PEC/PNEC):
PROC1, CS15	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	1,34 mg/kg/d	0,46
			Worker – long-term – systemic Combined routes		0,48
PROC1, CS67	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	0,01 mg/m3	0,00
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
			Worker – long-term – systemic Combined routes		0,12
PROC2, CS15	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	1,34 mg/kg/d	0,46
			Worker – long-term – systemic Combined routes		0,48
PROC3, CS107	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
			Worker – long-term – systemic Combined routes		0,13
PROC8a, CS39	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	13,71 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,49
PROC8a, CS103	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	5 mg/m3	0,07
			Worker – dermal, long- term – systemic	13,71 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,55
PROC8b, CS14, CS507	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	5 mg/m3	0,07
			Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,55
PROC8b, CS8	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long- term – systemic	6,86 mg/kg/d	0,47
			Worker – long-term – systemic Combined routes		0,49
PROC16, CS107	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	14 mg/m3	0,20
			Worker – dermal, long- term – systemic	0,34 mg/kg/d	0,12
			Worker – long-term –		0,32

SAFETY DATA SHEET

Diesel No. 2 Test Fuel

Version 1.12			Revisio	on Date 2024-05-21
		systemic Combined routes		
PROC1: Use in closed pro	cess, no likelihood d	of exposure		
CS15: General exposures	(closed systems)			
PROC1: Use in closed pro	cess, no likelihood o	of exposure		
CS67: Storage				
PROC2: Use in closed, cor		th occasional control	lled exposure	
CS15: General exposures				
PROC3: Use in closed bate	ch process (synthes	is or formulation)		
CS107: (closed systems)				
PROC8a: Transfer of subs	tance or preparatior	n (charging/dischargi	ing) from/to vesse	els/large containers
at non-dedicated facilities				
CS39: Equipment cleaning				
PROC8a: Transfer of subs	tance or preparation	n (charging/dischargi	ing) from/to vesse	els/large containers
at non-dedicated facilities				
CS103: Vessel and contair	5		······································	
PROC8b: Transfer of subs containers at dedicated fac		n (charging/ discharg	ling) from/ to vess	seis/ large
	linues			
CS14: Bulk transfers				
CS507: Refueling PROC8b: Transfer of subs	tanco or proparation	(charging/discharg	uina) from/ to voc	sole/lorgo
containers at dedicated fac		r (charging/ discharg	ing) noni/ to vest	seis/ laige
CS8: Drum/batch transfers				
PROC16: Using material a		ad avposure to unhu	rned product to b	a avpacted
CS107: (closed systems)				c capeolou
		at a such at la and s		
4. Guidance to Downstre by the Exposure Scenari		late whether he w	orks inside the	e poundaries set
by the Exposure Scenari	0			

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

Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk Management Measures are based on qualitative risk characterisation. 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).