

Version 1.18 Revision Date 2023-05-18

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 : TrusTec™ Diesel Cetane Check Fuel, Low

Material : 1104937, 1024260, 1024259, 1024261, 1024262, 1024258

EC-No.Registration number

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

1.2

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

Relevant Identified Uses : Manufacture

Supported 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

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

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Email:sds@cpchem.com

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Emergency telephone:

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic

Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371

67042473. (24 hours.)

Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week)

Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24

hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

Responsible Department : Product Safety and Toxicology Group

E-mail address : SDS@CPChem.com Website : www.CPChem.com

SECTION 2: Hazards identification

2.1

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

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Specific target organ toxicity - repeated H373:

exposure, Category 2, Liver May cause damage to organs through prolonged or

repeated exposure.

Short-term (acute) aquatic hazard, H401:

Category 2

Toxic to aquatic life.

Acute toxicity, Category 4 H332:

Harmful if inhaled.

Skin irritation, Category 2 H315:

Causes skin irritation.

Carcinogenicity, Category 2 H351:

Suspected of causing cancer.

Specific target organ toxicity - repeated H373:

exposure, Category 2, Liver May o

May cause damage to organs through prolonged or

repeated exposure.

, Blood , thymus

Aspiration hazard, Category 1 H304:

May be fatal if swallowed and enters airways.

Long-term (chronic) aquatic hazard, H411:

Category 2 Toxic to aquatic life with long lasting effects.

2.2

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal Word : Danger

Hazard Statements : 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 (Liver, Blood,

thymus) through prolonged or repeated

exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/

vapors/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection/ hearing

protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P391 Collect spillage.

Hazardous ingredients which must be listed on the label:

• 68476-34-6 Diesel fuel, no. 2

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2.3

Other hazards

Results of PBT and vPvB

assessment

: 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.

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.

SECTION 3: Composition/information on ingredients

3.1 - 3.2

Substance or Mixture

Synonyms : Diesel Special Test Fuel

Low Cetane Check Fuel Diesel

Molecular formula : Mixture

Hazardous ingredients

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 Aquatic Acute 2; H401 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 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0 - 1	

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

SECTION 4: First aid measures

4.1

Description of first-aid measures

General advice : Move out of dangerous area. Show this material safety data

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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. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed Notes to physician

Symptoms : No data available.

Risks : No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No data available.

SECTION 5: Firefighting measures

Flash point : 69,4°C (156,9°F)

Method: ASTM D 93

Autoignition temperature : No data available

5.1

Extinguishing media

Suitable extinguishing

media

: Carbon dioxide (CO2).

Unsuitable extinguishing

media

: High volume water jet.

5.2

Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

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.

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Fire and explosion

protection

: Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of

ignition.

Hazardous decomposition

products

: Hydrocarbons. Carbon oxides.

SECTION 6: Accidental release measures

6.1

Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation.

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). Keep in suitable,

closed containers for disposal.

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. Provide sufficient air exchange and/or exhaust in work rooms. 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. 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 in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright

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to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

7.3

Specific End Use

Use : For additional details, see the Exposure Scenario in the Annex

portion

SECTION 8: Exposure controls/personal protection

8.1

Control parameters Ingredients with workplace control parameters

PΤ

Componentes	Bases	Valor	Parâmetros de controlo	Nota
Diesel fuel, no. 2	PT OEL	VLE-MP	100 mg/m3	P, A3,
	PT OEL	VLE-MP	100 mg/m3	P, A3, Fração inalável e vapor

A3 Agente carcinogénico confirmado nos animais de laboratório com relevância desconhecida no Homem.

LT

Komponentai	Šaltinis	Vertė	Kontrolės parametrai	Pastaba
Diesel fuel, no. 2	LT OEL	IPRD	200 mg/m3	
	LT OEL	TPRD	300 mg/m3	

HR

Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
Diesel fuel, no. 2	HR OEL	GVI	100 ppm, 400 mg/m3	

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:. Full-Face Supplied-Air Respirator. Organic Vapor Cartridges. 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

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P Perigo de absorção cutânea

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with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant protective clothing. Footwear protecting against chemicals.

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 the Exposure Scenario in the Annex portion

SECTION 9: Physical and chemical properties

9.1

Information on basic physical and chemical properties

Appearance

Form : liquid

Physical state : liquid at (101,30 kPa)

Color : Pale yellow, Brown

Odor : Mild

Safety data

Flash point : 69,4°C (156,9°F)

Method: ASTM D 93

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : no

Autoignition temperature : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

pH : Not applicable

Pour point : -21° C (-6° F)

Method: ASTM D97

Boiling point/boiling range : 178-353°C (352-667°F)

Vapor pressure : 0,10 kPa

at 40°C (104°F)

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Method: ASTM D5191

Relative density : 0,8496

at 16 °C (61 °F), ASTM D-4052

Density : 0,8496 g/cm3

Method: ASTM D4052

Water solubility : negligible

Partition coefficient: n-

: No data available

octanol/water

Viscosity, kinematic : 2,4 cSt

at 40°C (104°F)

Relative vapor density : No data available

Evaporation rate : No data available

Percent volatile : > 99 %

100,01 %

9.2

Other information

Conductivity : No data available

SECTION 10: Stability and reactivity

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 reactions

Hazardous reactions: Hazardous polymerization does not

occur.

Further information: No decomposition if stored and applied as

directed.

Hazardous reactions: Vapors may form explosive mixture with

air.

10.4

Conditions to avoid : Heat, flames and sparks.

10.5

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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 information

11.1

Information on toxicological effects

Acute oral toxicity

Diesel fuel, no. 2 : LD50: > 5.000 mg/kg

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

TrusTec[™] Diesel Cetane Check Fuel, Low Skin irritation : Skin irritation

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Eye irritation : Vapors may cause irritation to the eyes, respiratory system

and the skin.

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Sensitization : Did not cause sensitization on laboratory animals.

Repeated dose toxicity

Diesel fuel, no. 2 : Species: Rat, Male and female

Sex: Male and female

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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.

Species: Rat, Male and female

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: 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

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

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Exposure time: 105 weeks

Number of exposures: 6 hours/day, 5 days/week

Test substance: yes

Print Date: No information available. Remarks: No evidence of carcinogenicity

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

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Aspiration toxicity : May be fatal if swallowed and enters airways.

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Specific Target Organ Toxicity (Repeated Exposure)

Diesel fuel, no. 2 : Target Organs: Liver, Blood, thymus

Assessment: May cause damage to organs through prolonged

or repeated exposure.

Naphthalene Target Organs: Eyes, Blood

Assessment: Causes damage to organs through prolonged or

repeated exposure.

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

11.2

Information on other hazards

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Further information : Solvents may degrease the skin.

Endocrine disrupting : The substance/mixture does not contain components

properties considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

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 information

12.1

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 other 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)

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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

Naphthalene EC50: 2,96 mg/l

Exposure time: 48 h

Species: Selenastrum capricornutum (algae)

12.2

Persistence and degradability

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 assessment

Results of PBT assessment : 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 properties

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

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Additional ecological

: Toxic to aquatic life with long lasting effects.

information

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.

hazard

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, COMBUSTIBLE LIQUID, III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DIESEL FUEL), 9, III, (69,4 °C c.c.), MARINE POLLUTANT, (DIESEL FUEL)

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IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (DIESEL FUEL), 9. 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))

30,UN1202,DIESEL FUEL, 3, III, ENVIRONMENTALLY HAZARDOUS, (DIESEL FUEL)

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN1202, DIESEL FUEL, 3, III, ENVIRONMENTALLY HAZARDOUS, (DIESEL FUEL)

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

15.1

Safety, health and environmental regulations/legislation specific for the substance or mixture National legislation

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Water hazard class : WGK 3 highly water endangering

(Germany) List with water hazardous substances (Class 1 till 3) in

VwVwS

15.2

Chemical Safety Assessment

Components : 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

: ZEU_SEVES3 Update: ENVIRONMENTAL HAZARDS

E2

Quantity 1: 200 t Quantity 2: 500 t

: ZEU_SEVES3 Update:

Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel

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> fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes 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 This mixture contains only ingredients which have been

registered according to Regulation (EU) No. 1907/2006

(REACH).

Switzerland CH INV

On the inventory, or in compliance with the inventory United States of America (USA) On or in compliance with the active portion of the

TSCA

TSCA inventory

Canada DSL All components of this product are on the Canadian

Other AICS

On the inventory, or in compliance with the inventory New Zealand NZIoC On the inventory, or in compliance with the inventory Japan ENCS On the inventory, or in compliance with the inventory

Korea KECI

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.

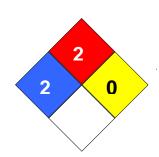
Philippines PICCS China IECSC Taiwan TCSI

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

SECTION 16: Other information

NFPA Classification : Health Hazard: 2

Fire Hazard: 2 Reactivity Hazard: 0



Further information

Legacy SDS Number : CPC00523

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the

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specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

K	ey 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.
H372	Causes damage to organs through prolonged or repeated exposure.
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.

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Annex

1. Short title of Exposure Scenario: Manufacture

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 controlling environmental exposure for:ERC1: Manufacture of substances

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)

: 3.300

Environment factors not influenced by risk management

Flow rate : 18.000 m3/d

Dilution Factor (River) : 10 Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Continuous use/release

Number of emission days per year : 300 Emission or Release Factor: Air : 1 %

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Emission or Release Factor: Water : 0,003 % Emission or Release Factor: Soil : 0,01 %

Technical conditions and measures / 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 ≥ (%):

(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 ≥ (%):

(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 municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment

plant effluent

: 10.000 m3/d

Effectiveness (of a measure) : 94,1 % Percentage removed from waste : 94,1 %

water

Conditions and measures related to external treatment of waste for disposal

Waste treatment : During manufacturing no waste of the substance is generated.

Conditions and measures related to external recovery of waste

Recovery Methods : During manufacturing no waste of the substance is generated.

2.2 Contributing scenario controlling worker exposure for: PROC1: Use in closed process, no likelihood of exposure

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 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 system., Store substance within a closed system.

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Organizational measures to prevent /limit releases, dispersion and exposure

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

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

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 : 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 : 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 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 : 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 : 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 system.

Organizational measures to prevent /limit releases, dispersion and exposure

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No other specific measures identified.

2.2 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

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 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.

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

Wear suitable gloves tested to EN374.

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

Product characteristics

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 : 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

Drain down system prior to equipment opening or maintenance.

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

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

2.2 Contributing scenario controlling worker exposure for: 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 : With potential for aerosol generation.

Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated

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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 system.

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

Wear suitable gloves tested to EN374.

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

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 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		Worker – inhalation,	0,01 mg/m3	0,00

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	Modified	long-term – systemic		
		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- 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

PROC1: Use in closed process, no likelihood of exposure

CS15: General exposures (closed systems)

PROC1: Use in closed process, no likelihood of exposure

CS85: Bulk product storage

PROC2: Use in closed, continuous process with occasional controlled exposure

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CS15: General exposures (closed systems)

CS85: Bulk product storage

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PROC3: Use in closed batch process (synthesis or formulation)

CS15: General exposures (closed systems)

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)

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.

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: Distribution

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)

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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 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.

2.1 Contributing scenario controlling environmental exposure for: 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 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

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

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Environment factors not influenced by risk management

Flow rate : 18.000 m3/d

Dilution Factor (River) : 10 Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Continuous use/release

Number of emission days per year : 300 Emission or Release Factor: Air : 0,1 % Emission or Release Factor: Water : 0,0001 % Emission or Release Factor: Soil : 0,001 %

Technical conditions and measures / 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 ≥ (%):

(Effectiveness: 0 %)

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 ≥ (%):

(Effectiveness: 0 %)

Remarks : Prevent discharge of undissolved substance to or recover

from onsite wastewater.

Remarks : Risk from environmental exposure is driven by humans via

indirect exposure (primarily ingestion).

Remarks : No 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 municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment

plant effluent

: Municipal sewage treatment plar: 2.000 m3/d

Effectiveness (of a measure) : 94,1 % Percentage removed from waste : 94,1 %

water

Conditions and measures related to external treatment of waste for disposal

Waste treatment : External treatment and disposal of waste should comply with

applicable local and/or national regulations.

Conditions and measures related to external recovery of waste

Recovery Methods : External recovery and recycling of waste should comply with

applicable local and/or national regulations.

2.2 Contributing scenario controlling worker exposure for: PROC1: Use in closed process, no likelihood of exposure

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

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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

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance is likely. Clean up contamination/spills as soon as they occur. Wash off skin contamination immediately. Provide basic employee training to prevent/minimize exposures and to report any skin effects that may develop., Handle substance within a closed system., Store substance within a closed system.

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 : 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 : 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 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 : 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)

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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 system.

Organizational measures to prevent /limit releases, dispersion and exposure

No other specific measures identified.

2.2 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

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 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.

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

Wear suitable gloves tested to EN374.

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

Product characteristics

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 : 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

Drain down system prior to equipment opening or maintenance.

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

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

2.2 Contributing scenario controlling worker exposure for: PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at

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dedicated facilities

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 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 system.

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

Wear suitable gloves tested to EN374.

2.2 Contributing scenario controlling worker exposure for: PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

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 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.

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

Wear suitable gloves tested to EN374.

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

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 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.

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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, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7	Hydrocarbon Block Method with Petrorisk		Air		0,024 mg/m3	
			Freshwater		0,0018 mg/L	0,048
			Freshwater sediment		1,4 mg/kg wet weight	0,055
			Marine water		0,000057 mg/L	0,00083
			Marine sediment		0,064 mg/kg wet weight	0,0019
			Agricultural soil		0,17 mg/kg wet weight	0,0017

ERC1: Manufacture of substances ERC2: Formulation of preparations

ERC3: Formulation in materials

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

ERC5: Industrial use resulting in inclusion into or onto a matrix

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

ERC6b: Industrial use of reactive processing aids

ERC6c: Industrial use of monomers for manufacture of thermoplastics

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

rubbers, polymers

ERC7: Industrial use of substances in closed systems

Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC1, CS15	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		Worker – inhalation,	3 mg/m3	0,04

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	Modified	long-term – systemic		
		Worker – dermal, long-	0,34 mg/kg/d	0,12
		term – systemic		
		Worker – long-term –		0,16
	,	systemic Combined		
	,	routes		
PROC4, CS16	ECETOC TRA	Worker – inhalation,	5 mg/m3	0,07
	Modified	long-term – systemic	•	
		Worker – dermal, long-	6,86 mg/kg/d	0,47
	,	term – systemic	, , ,	•
		Worker – long-term –		0,55
	,	systemic Combined		,
	,	routes		
PROC8a, CS39	ECETOC TRA	Worker – inhalation,	2 mg/m3	0,03
	Modified	long-term – systemic	<u> </u>	-,
		Worker – dermal, long-	13,71 mg/kg/d	0,47
		term – systemic	10,1	٥,
		Worker – long-term –		0,50
	,	systemic Combined		0,00
		routes		
PROC8b,	ECETOC TRA	Worker – inhalation,	5 mg/m3	0,07
CS501, CS503	Modified	long-term – systemic	o mg/mo	0,01
	Modified	Worker – dermal, long-	6,86 mg/kg/d	0,47
	,	term – systemic	0,00 mg/ng/a	0,-1
		Worker – long-term –		0,55
	,	systemic Combined		0,00
		routes		
PROC9, CS6	ECETOC TRA	Worker – inhalation,	5 mg/m3	0,07
	Modified	long-term – systemic	5 mg/ms	0,07
	Modified	Worker – dermal, long-	6,86 mg/kg/d	0,47
		term – systemic	0,00 mg/kg/u	0,47
		Worker – long-term –		0,55
				0,55
	,	systemic Combined		
DD004E 0000	FOSTOC TDA	routes	5 / O	0.07
PROC15, CS36	ECETOC TRA	Worker – inhalation,	5 mg/m3	0,07
	Modified	long-term – systemic	2.24 // //	0.40
	,	Worker – dermal, long-	0,34 mg/kg/d	0,12
		term – systemic		
		Worker – long-term –		0,19
		systemic Combined		
	in the state of th	routes		

PROC1: Use in closed process, no likelihood of exposure

CS15: General exposures (closed systems)

PROC1: Use in closed process, no likelihood of exposure

CS67: Storage

PROC2: Use in closed, continuous process with occasional controlled exposure

CS15: General exposures (closed systems)

CS67: Storage

PROC3: Use in closed batch process (synthesis or formulation)

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

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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

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 : **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,

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road/rail car and bulk container).

2.1 Contributing scenario controlling environmental exposure for:ERC6a: Industrial use resulting in manufacture of another 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 by risk management

Flow rate : 18.000 m3/d

Dilution Factor (River) : 10
Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Continuous use/release

Number of emission days per year : 300 Emission or Release Factor: Air : 0,1 % Emission or Release Factor: Water : 0,003 % Emission or Release Factor: Soil : 0,1 %

Technical conditions and measures / Organizational measures

Air : Treat air emission to provide a typical removal efficiency of

(%): (Effectiveness: 80 %)

Water : Treat onsite wastewater (prior to receiving water discharge) to

provide the required removal efficiency of ≥ (%):

(Effectiveness: 51,6 %)

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 ≥ (%):

(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 municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment :

plant effluent

: 2.000 m3/d

Effectiveness (of a measure) : 94,1 % Percentage removed from waste : 94,1 %

water

Conditions and measures related to external treatment of waste for disposal

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Waste treatment : This substance is consumed during use and no waste of the

substance is generated.

Conditions and measures related to external recovery of waste

Recovery Methods : This substance is consumed during use and no waste of the

substance is generated.

2.2 Contributing scenario controlling worker exposure for: PROC1: Use in closed process, no likelihood of exposure

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 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

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance is likely. Clean up contamination/spills as soon as they occur. Wash off skin contamination immediately. Provide basic employee training to prevent/minimize exposures and to report any skin effects that may develop., Handle substance within a closed system., Store substance within a closed system.

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 : 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 : Operation is carried out at elevated temperature (> 20°C

above ambient temperature)., Assumes a good basic standard

of occupational hygiene is implemented.

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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 : 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 : 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 system.

Organizational measures to prevent /limit releases, dispersion and exposure

No other specific measures identified.

2.2 Contributing scenario controlling worker exposure for: PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises

Product characteristics

Remarks : Liquid, vapour pressure < 0.5 kPa at STP

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.

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

Wear suitable gloves tested to EN374.

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

Product characteristics

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

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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

Drain down system prior to equipment opening or maintenance.

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

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

2.2 Contributing scenario controlling worker exposure for: 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 : 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 system.

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

Wear suitable gloves tested to EN374.

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

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 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.

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3. Exposure estimation and reference to its source

Environment

Contributing Scenario	Exposure Assessment Method	Specific conditions	Compartment	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
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: Industrial use resulting in manufacture of another substance (use of intermediates)

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 – 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

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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

PROC1: Use in closed process, no likelihood of exposure

CS15: General exposures (closed systems)

PROC1: Use in closed process, no likelihood of exposure

CS85: Bulk product storage

PROC2: Use in closed, continuous process with occasional controlled exposure

CS15: General exposures (closed systems)

CS85: Bulk product storage

PROC3: Use in closed batch process (synthesis or formulation)

CS15: General exposures (closed systems)

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)

PROC15: Use as laboratory reagent

CS36: Laboratory activities

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

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

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 a fuel - industrial

Main User Groups : SU 3: Industrial uses: Uses of substances as such or in

preparations at industrial sites

Sector of use : SU3: Industrial Manufacturing (all)

Process category : **PROC1:** Use in closed process, no likelihood of exposure

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 as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment

maintenance and handling of waste.

2.1 Contributing scenario controlling environmental exposure for:ERC7: Industrial use of substances in closed systems

Product characteristics

Remarks Substance is complex UVCB., Predominantly hydrophobic.

: 5.000

Maximum allowable site tonnage (MSafe) based on release

following total wastewater

treatment removal (tonnes/day):

(Msafe)

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Environment factors not influenced by risk management

Flow rate : 18.000 m3/d

Dilution Factor (River) : 10 Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Continuous use/release

Number of emission days per year : 300 Emission or Release Factor: Air : 0,5 % Emission or Release Factor: Water : 0,001 % Emission or Release Factor: Soil : 0 %

Technical conditions and measures / Organizational measures

Air : Treat air emission to provide a typical removal efficiency of

(%): (Effectiveness: 95 %)

Water : Treat onsite wastewater (prior to receiving water discharge) to

provide the required removal efficiency of ≥ (%):

(Effectiveness: 97,7 %)

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 ≥ (%):

(Effectiveness: 60,4 %)

Remarks : 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 : Do not apply industrial sludge to natural soils.

Remarks : Sludge should be incinerated, contained or reclaimed.

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment

plant effluent

: 2.000 m3/d

Effectiveness (of a measure) : 94,1 % Percentage removed from waste : 97,7 %

water

Conditions and measures related to external treatment of waste for disposal

Remarks : Combustion emissions limited by required exhaust emission

controls.

Remarks : Combustion emissions considered in regional exposure

assessment.

Conditions and measures related to external recovery of waste

Recovery Methods : External recovery and recycling of waste should comply with

applicable local and/or national regulations.

2.2 Contributing scenario controlling worker exposure for: PROC1: Use in closed process, no likelihood of exposure

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

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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

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

Organizational measures to prevent /limit releases, dispersion and exposure

No other specific measures identified.

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 : 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.

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 : With potential for aerosol generation.

Frequency and duration of use

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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 : 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.

Technical conditions and measures

Drain down system prior to equipment opening or maintenance.

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

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

2.2 Contributing scenario controlling worker exposure for: 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 : 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.

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

2.2 Contributing scenario controlling worker exposure for: PROC16: Using material as

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fuel sources, limited exposure to unburned product to be expected

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 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.

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):
ERC7	Hydrocarbon Block Method with Petrorisk		Air		0,29 mg/m3	
			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 characterization 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 –		0,49

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		systemic Combined routes		
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 – systemic Combined routes		0,02

PROC1: Use in closed process, no likelihood of exposure

CS15: General exposures (closed systems)

PROC1: Use in closed process, no likelihood of exposure

CS67: Storage

PROC2: Use in closed, continuous process with occasional controlled exposure

CS15: General exposures (closed systems)

PROC2: Use in closed, continuous process with occasional controlled exposure

CS67: Storage

PROC3: Use in closed batch process (synthesis or formulation)

CS107: (closed systems)

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

CS39: Equipment cleaning and maintenance

CS103: Vessel and container cleaning

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

CS8: Drum/batch transfers

CS14: Bulk transfers

PROC16: Using material as fuel sources, limited exposure to unburned product to be expected

CS107: (closed systems)

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

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

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 a fuel - professional

Main User Groups : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

Sector of use : SU 22: Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

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 : **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 controlling environmental exposure for:ERC9a, ERC9b: Wide dispersive indoor use of substances in closed systems, Wide dispersive outdoor use of substances in closed systems

Product characteristics

Remarks Substance is complex UVCB., Predominantly hydrophobic.

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Maximum allowable site tonnage

: 140.000

(MSafe) based on release following total wastewater

treatment removal (kg/d):(Msafe)

Environment factors not influenced by risk management

Flow rate : 18.000 m3/d

Dilution Factor (River) : 10 Dilution Factor (Coastal Areas) : 100

Other given operational conditions affecting environmental exposure

Continuous use/release

Number of emission days per year : 365

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 : < 0.001 %

Soil : 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 : No wastewater treatment required.

Air : Treat air emission to provide a typical removal efficiency of

(%):

Remarks : Not applicable

Water : Treat onsite wastewater (prior to receiving water discharge) to

provide the required removal efficiency of ≥ (%):

(Effectiveness: 0 %)

Water : If discharging to domestic sewage treatment plant, provide the

required onsite wastewater removal efficiency of ≥ (%):

(Effectiveness: 0 %)

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 municipal sewage treatment plant

Type of Sewage Treatment Plant : Municipal sewage treatment plant

Flow rate of sewage treatment

: 2.000 m3/d

plant effluent

Effectiveness (of a measure) : 94,1 % Percentage removed from waste : 94,1 %

wate

Conditions and measures related to external treatment of waste for disposal

Remarks : Combustion emissions limited by required exhaust emission

controls.

Remarks : Combustion emissions considered in regional exposure

assessment.

Conditions and measures related to external recovery of waste

Recovery Methods : External recovery and recycling of waste should comply with

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applicable local and/or national regulations.

2.2 Contributing scenario controlling worker exposure for: PROC1: Use in closed process, no likelihood of exposure

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 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

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

Organizational measures to prevent /limit releases, dispersion and exposure

No other specific measures identified.

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 : 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.

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Organizational measures to prevent /limit releases, dispersion and exposure

No other specific measures identified.

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 : 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 : 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.

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

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

2.2 Contributing scenario controlling worker exposure for: 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 : With potential for aerosol generation.

Frequency and duration of use

Remarks : Covers daily exposures up to 8 hours (unless stated

differently)

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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.

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

Wear suitable gloves tested to EN374.

2.2 Contributing scenario controlling worker exposure for: PROC16: Using material as fuel sources, limited exposure to unburned product to be expected

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 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

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour), Ensure operation is undertaken outdoors.

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):
ERC9a, ERC9b	Hydrocarbon Block Method with Petrorisk		Air		0,02 mg/m3	
			Freshwater		0,0015 mg/L	0,043
			Freshwater sediment		1,4 mg/kg wet weight	0,05
			Marine water		0,000028 mg/L	0,00041
			Marine sediment		0,063 mg/kg wet weight	0,0014
			Agricultural soil		0,17 mg/kg wet weight	0,0054

ERC9a: Wide dispersive indoor use of substances in closed systems ERC9b: Wide dispersive outdoor use of substances in closed systems

Workers/Consumers

Contributing Scenario	Exposure Assessment Method	Specific conditions	Value type	Level of Exposure	Risk characterization ratio (PEC/PNEC):
PROC1, CS15	ECETOC TRA Modified		Worker – inhalation, long-term – systemic	1 mg/m3	0,01
			Worker – dermal, long-	1,34 mg/kg/d	0,46

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ĺ		term – systemic		
		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 – systemic Combined routes		0,32

PROC1: Use in closed process, no likelihood of exposure

CS15: General exposures (closed systems)

PROC1: Use in closed process, no likelihood of exposure

CS67: Storage

PROC2: Use in closed, continuous process with occasional controlled exposure

CS15: General exposures (closed systems)

PROC3: Use in closed batch process (synthesis or formulation)

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CS107: (closed systems)

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

CS39: Equipment cleaning and maintenance

PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers

at non-dedicated facilities

CS103: Vessel and container cleaning

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

CS14: Bulk transfers CS507: Refueling

PROC8b: Transfer of substance or preparation (charging/ discharging) from/ to vessels/ large

containers at dedicated facilities CS8: Drum/batch transfers

PROC16: Using material as fuel sources, limited exposure to unburned product to be expected

CS107: (closed systems)

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

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

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).

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