

Version 2.17 Revision Date 2023-01-25

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 : 1-Octene (C8 H16)

EC-No.Registration number

Chemical name	CAS-No.	Legal Entity
	EC-No.	Registration number
	Index No.	
1-Octene	111-66-0	Qatar Chemical Company LTD (Q-Chem)
	203-893-7	01-2119486877-14-0005

1.2

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

Relevant Identified Uses

Supported

Manufacture Formulation

Use in polymer production - industrial

Use as an intermediate
Use as a fuel - industrial
Use as a fuel – professional
Lubricants - Industrial

Metal working fluids / rolling oils - Industrial

1.3

Details of the supplier of the safety data sheet

Company : Qatar Chemical Company LTD (QChem)

Amwal Tower, Omar Al Mukhtar St,

Al-Dafna (Zone 61) PO Box 24646 Doha, Qatar

SDS Requests: (+974) 4484-7110 Technical Information: (+974) 4476-7145 Responsible Party: Product Safety Group Email: MSDSInquiry@qchem.com.qa

Local : Muntajat B.V. (MBV OR)

19th Floor, Tower E, WTC The Hague Prinses Margrietplantsoen 78-A, 2595 BR

The Hague, the Netherlands.

Tel: +31702055630

Email: info.netherlands@muntajatbv.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**

Flammable liquids, Category 2 H225:

Highly flammable liquid and vapor.

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H400:

Aspiration hazard, Category 1 H304:

May be fatal if swallowed and enters airways.

Short-term (acute) aquatic hazard,

Category 1 Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, H410:

Category 1 Very toxic to aquatic life with long lasting effects.

2.2

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :







Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters

airways.

H410 Very toxic to aquatic life with long lasting

effects.

Precautionary Statements : Prevention:

P210 Keep away from heat/ sparks/ open flames/

hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving

equipment.

P243 Take precautionary measures against static

discharge.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a

POISON CENTER/ doctor.

off immediately all contaminated clothing.

Rinse skin with water/ shower.

P331 Do NOT induce vomiting.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Hazardous ingredients which must be listed on the label:

• 111-66-0 1-Octene

Additional Labeling:

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3

Other hazards

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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.

SECTION 3: Composition/information on ingredients

3.1 - 3.2

Substance or Mixture

Synonyms : Octene-n-1

Octene-1 (C8) AlphaPlus™ NAO 8

C8H16

Molecular formula : C8H16

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
1-Octene	111-66-0 203-893-7	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	95 - 100	M [Acute]=1
2-Ethyl-1-Hexene	1632-16-2 216-636-9	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	1 - 5	

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

sheet to the doctor in attendance. Symptoms of poisoning may

appear several hours later. Do not leave the victim

unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice. If symptoms persist, call a physician.

In case of skin contact : 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 : Do not ingest. If swallowed then seek immediate medical

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assistance.

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 information available.

No information available. Risks

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

Flash point : 13°C (55°F)

Method: Tag closed cup

221°C (430°F) Autoignition temperature

5.1

Extinguishing media

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

media

: High volume water jet.

5.2

Special hazards arising from the substance or mixture

fighting

Specific hazards during fire : 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.

Fire and explosion

protection

Do not spray on a naked flame or any incandescent material.

5/45

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot

surfaces and sources of ignition.

Hazardous decomposition

products

: Carbon oxides.

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SECTION 6: Accidental release measures

6.1

Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low

areas.

6.2

Environmental precautions

Environmental precautions Prevent product from entering drains. Prevent further leakage

or spillage if safe to do so. If the product contaminates rivers

and lakes or drains inform respective authorities.

6.3

Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible

> absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

6.4

Reference to other sections

For personal protection see section 8. For disposal Reference to other sections

considerations see section 13.

A quantitative risk assessment is not required for human health.

SECTION 7: Handling and storage

7.1

Precautions for safe handling Handling

Advice on safe handling

Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. Review all operations, which have the potential to generating and accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106 "Flammable and Combustible Liquids"; National Fire Protection Association (NFPA 77), "Recommended Practice on Static Electricity"; and/or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising Out of Static, Lightning, and stray Currents".

Advice on protection against fire and explosion Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot

surfaces and sources of ignition.

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7.2

Conditions for safe storage, including any incompatibilities

Storage

Requirements for storage areas and containers

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: Exposure controls/personal protection

8.1

Control parameters

PNEC : Fresh water

Value: 0,012 mg/l

PNEC : Sea water

Value: 0,012 mg/l

PNEC : Fresh water sediment

Value: 6,06 mg/kg

PNEC : Sea sediment

Value: 6,06 mg/kg

PNEC : Soil

Value: 1,25 mg/kg

8.2

Exposure controls Engineering measures

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

Personal protective equipment

Respiratory protection : If ventilation or other engineering controls are not adequate to

maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Organic Vapors. A positive pressure, air-supplying respirator may be appropriate if there is notential for

supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not

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known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374 and provide

employee skin care programmes.

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

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

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic

footwear.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

A quantitative risk assessment is not required for human health.

SECTION 9: Physical and chemical properties

9.1

Information on basic physical and chemical properties

Appearance

Form : liquid Physical state : liquid

Color : Clear, colorless

Safety data

Flash point : 13°C (55°F)

Method: Tag closed cup

Lower explosion limit : 0,7 %(V)

Upper explosion limit : 6,8 %(V)

Oxidizing properties : no

Autoignition temperature : 221°C (430°F)

Molecular formula : C8H16

Molecular weight : 112,24 g/mol

pH : No data available

Pour point : Not applicable

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Melting point/freezing point -102°C (-152°F)

Boiling point/boiling range : 121°C (250°F)

Vapor pressure : 1,75 kPa

at 20°C (68°F)

15,30 kPa at 65°C (149°F)

Relative density : 0,72

at 15,6 °C (60,1 °F)

Density : 719 kg/m3

at 15°C (59°F)

710 kg/m3 at 20°C (68°F)

690 kg/m3 at 50°C (122°F)

Water solubility : Soluble in hydrocarbon solvents; insoluble in water.

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : 0,38 cSt

at 40°C (104°F)

Relative vapor density : 3,9

(Air = 1.0)

Evaporation rate : No data available

Percent volatile : > 99 %

9.2

Other information

Conductivity : 2,9 pSm

Method: ASTM D4308

SECTION 10: Stability and reactivity

10.1

Reactivity : Stable at normal ambient temperature and pressure.

10.2

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

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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, sparks, fire, and oxidizing agents.

10.5

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

10.6

Hazardous decomposition

products

: Carbon oxides

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1

Information on toxicological effects

Acute oral toxicity

1-Octene : LD50: > 10.000 mg/kg

Species: Rat

Sex: male and female Method: Fixed Dose Method

Acute inhalation toxicity

1-Octene : LC50: 40,2 mg/l

Exposure time: 4 h Species: Rat Sex: male

Test atmosphere: vapor

Method: OECD Test Guideline 403

Acute dermal toxicity

1-Octene : LD50: > 2.000 mg/kg

Species: Rabbit Sex: male and female

Method: OECD Test Guideline 402

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Skin irritation : Repeated or prolonged contact with the mixture may cause

removal of natural fat from the skin resulting in desiccation of

the skin.

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1-Octene (C8 H16)

Eye irritation : No eye irritation.

Sensitization

1-Octene : Did not cause sensitization on laboratory animals.

Repeated dose toxicity

1-Octene : Species: Rat, Male and female

Sex: Male and female Application Route: Oral diet Dose: 0, 100, 500, 1000 mg/kg

Exposure time: 13 wk Number of exposures: daily NOEL: 1.000 mg/kg

Method: OCED Guideline 408

Information given is based on data obtained from similar

substances.

Species: Rat, Male and female

Sex: Male and female

Application Route: Inhalation Dose: 0, 300, 1000, 3000 ppm

Exposure time: 13 wk

Number of exposures: 6 hrs/d, 5 d/wk

NOEL: 3000 ppm

Method: OECD Guideline 413

Information given is based on data obtained from similar

substances.

Genotoxicity in vitro

1-Octene : Test Type: Ames test

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

Test Type: Cell transformation assay

Result: negative

Genotoxicity in vivo

1-Octene : Remarks: Not classified due to data which are conclusive

although insufficient for classification.

Reproductive toxicity

1-Octene : Species: Rat

Sex: male

Application Route: Oral diet Dose: 0, 100, 500, or 1000 mg/kg

Exposure time: 44 D Number of exposures: daily Method: OECD Guideline 421 NOAEL Parent: 1.000 mg/kg

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NOAEL F1: 1.000 mg/kg

Species: Rat Sex: female

Application Route: Oral diet Dose: 0, 100, 500, or 1000 mg/kg

Exposure time: 41-55 D Number of exposures: daily Method: OECD Guideline 421 NOAEL Parent: 1.000 mg/kg NOAEL F1: 1.000 mg/kg

1-Octene (C8 H16)

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

Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity

hazard.

CMR effects

1-Octene : Carcinogenicity: Not available

Mutagenicity: Tests on bacterial or mammalian cell cultures

did not show mutagenic effects. Teratogenicity: Not available

Reproductive toxicity: Animal testing did not show any effects

on fertility.

11.2

Information on other hazards

1-Octene (C8 H16)

Further information : Solvents may degrease the skin.

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 12: Ecological information

12.1

Toxicity

Toxicity to fish

1-Octene : LC50: 0,87 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar

substances.

Toxicity to daphnia and other aquatic invertebrates

1-Octene : EC50: 1 mg/l

Exposure time: 48 h

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Species: Daphnia magna (Water flea)

static test Method: OECD Test Guideline 202

Information given is based on data obtained from similar

substances.

Toxicity to algae

1-Octene : EC50: 1 - 10 mg/l

Exposure time: 96 h

Species: Pseudokirchneriella subcapitata (microalgae)

Method: OECD Test Guideline 201

Information given is based on data obtained from similar

substances.

M-Factor

oct-1-ene : M-Factor (Acute Aquat. Tox.) 1

12.2

Persistence and degradability

Biodegradability : This material is expected to be readily biodegradable.

12.3

Bioaccumulative potential

Elimination information (persistence and degradability)

Bioaccumulation

1-Octene : Bioconcentration factor (BCF): 1.259

Method: QSAR modeled data

12.4

Mobility in soil

Mobility

1-Octene : 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

information

: Very toxic to aquatic life with long lasting effects.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Very toxic to aquatic life

with long lasting effects.

12.8

Additional Information

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

1-Octene : Very toxic to aquatic life.

2-Ethyl-1-Hexene : Toxic to aquatic life.

Long-term (chronic) aquatic hazard

1-Octene : Very toxic to aquatic life with long lasting effects.

2-Ethyl-1-Hexene : Toxic to aquatic life with long lasting effects.

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.

A quantitative risk assessment is not required for human health.

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

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bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, (13 °C c.c.), MARINE POLLUTANT, (1-OCTENE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (1-OCTENE)

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

33,UN3295,HYDROCARBONS, LIQUID, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS, (1-OCTENE)

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

UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, II, ENVIRONMENTALLY HAZARDOUS, (1-OCTENE)

Other information : Octene (all isomers), S.T.2, Cat. Y

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) 2015/830 of 28 May 2015 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

(Germany)

: WGK 3 highly water endangering

15.2

Chemical Safety Assessment

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Components : oct-1-ene A Chemical Safety Assessment 203-893-7

has been carried out for this

substance.

Major Accident Hazard

Legislation

: 96/82/EC Update: 2003

Highly flammable

7b

Quantity 1: 5.000 t Quantity 2: 50.000 t

: 96/82/EC Update: 2003 Dangerous for the environment

9a

Quantity 1: 100 t Quantity 2: 200 t

Notification status

Europe REACH : This product is in full compliance according to REACH

regulation 1907/2006/EC.

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

DSL

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 QChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on QChem's notifications or if the Importer of

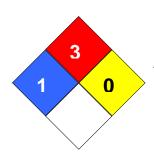
Record themselves notified the substances.

Philippines PICCS : On the inventory, or in compliance with the inventory
China IECSC : On the inventory, or in compliance with the inventory
Taiwan TCSI : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 1

Fire Hazard: 3 Reactivity Hazard: 0



Further information

Legacy SDS Number : QCHEM010

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

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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 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.

	ey or legend to abbreviations and a	cronyms used	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.

H225	Highly flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very 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: Exposure Scenarios

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ES 1: Manufacture; Industrial uses (SU3).

1.1. Title section

Exposure Scenario name : Manufacture

Structured Short Title : Manufacture; Industrial uses (SU3).

Substance : oct-1-ene

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Environment

CS 1 Manufacture ERC1, ERC4

Worker

CS 2 General measures applicable to all activities, General measures (skin PROC1, irritants)

PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15

1.2. Conditions of use affecting exposure

1.2.1. Control of environmental exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Amount used (or contained in articles), frequency and duration of use/exposure

Maximum allowable site tonnage

(MSafe)

: 1.077.586 kg

Critical compartment for Msafe : Sewage treatment plant

Release type : Continuous release

Emission days : 300

Technical and organisational conditions and measures

Risk from environmental exposure is driven by freshwater sediment.

Air - minimum efficiency of 90 %

Water - minimum efficiency of 97,2 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Prevent discharge of undissolved substance to or recover from

wastewater.

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

STP effluent : 2.000 m3/d

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Conditions and measures related to treatment of waste (including article waste)

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

applicable local and/or national regulations.

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 40

Local marine water dilution factor : 100

1.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Use as laboratory reagent (PROC15)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

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

No other specific measures identified.

Other conditions affecting workers exposure

Temperature : Assumes use at not more than 20°C above ambient

temperature.

1.3. Exposure estimation and reference to its source

1.3.1. Environmental release and exposure: Manufacture of the substance (ERC1) / Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
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Air	0,29 mg/m³ (EUSES)	
Freshwater	0,00266 mg/l (EUSES)	0,222
Freshwater sediment	0,307 mg/kg wet weight (EUSES)	0,116
Sea water	0,00106 mg/l (EUSES)	0,089
Sea sediment	0,123 mg/kg wet weight (EUSES)	0,010
Soil	0,0353 mg/kg wet weight (EUSES)	0,032

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used. Risk from environmental exposure is driven by freshwater sediment.

1.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Use as laboratory reagent (PROC15)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

1.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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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ES 2: Formulation; Industrial uses (SU3).

2.1. Title section

Exposure Scenario name : Formulation

Structured Short Title : Formulation; Industrial uses (SU3).

Substance : oct-1-ene

EC-No.: 203-893-7

Environment

CS 1 Formulation ERC2

Worker

CS 2 General measures applicable to all activities, General measures (skin irritants)

PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15

PROC1,

2.2. Conditions of use affecting exposure

2.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

Amount used (or contained in articles), frequency and duration of use/exposure

Maximum allowable site tonnage

(MSafe)

: 138.601 kg

Critical compartment for Msafe

: Sewage treatment plant

Release type

Continuous release

Emission days : 300

Technical and organisational conditions and measures

Risk from environmental exposure is driven by soil.

Air - minimum efficiency of 0 %

Water - minimum efficiency of 97,2 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Prevent discharge of undissolved substance to or recover from

wastewater.

Do not apply industrial sludge to natural soils.

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Sewage sludge should be incinerated, contained or reclaimed.

STP effluent : 2.000 m3/d

Conditions and measures related to treatment of waste (including article waste)

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

applicable local and/or national regulations.

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

2.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Mixing or blending in batch processes (PROC5) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Tabletting, compression, extrusion, pelettisation, granulation (PROC14) / Use as laboratory reagent (PROC15)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

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

Other conditions affecting workers exposure

Temperature : Assumes use at not more than 20°C above ambient

temperature.

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2.3. Exposure estimation and reference to its source

2.3.1. Environmental release and exposure: Formulation into mixture (ERC2)

Protection Target	Exposure estimate	RCR
Air	0,385 mg/m³ (EUSES)	
Freshwater	0,00189 mg/l (EUSES)	0,158
Freshwater sediment	0,218 mg/kg wet weight (EUSES)	0,083
Sea water	0,000189 mg/l (EUSES)	0,016
Sea sediment	0,0218 mg/kg wet weight (EUSES)	0,002
Soil	0,195 mg/kg wet weight (EUSES)	0,481

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used. Risk from environmental exposure is driven by soil.

2.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Mixing or blending in batch processes (PROC5) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Tabletting, compression, extrusion, pelettisation, granulation (PROC14) / Use as laboratory reagent (PROC15)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

2.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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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ES 3: Use in polymer production – industrial; Industrial uses (SU3).

3.1. Title section

Environment

 Exposure Scenario name
 : Use in polymer production – industrial

 Structured Short Title
 : Use in polymer production – industrial; Industrial uses (SU3).

 Substance
 : oct-1-ene EC-No.: 203-893-7

CS 1	Use in polymer production – industrial	ERC4, ERC6c
Worker	r	

CS 2	General measures applicable to all activities, General measures (skin	PROC1,
	irritants)	PROC2,
		PROC3,
		PROC4,
		PROC5,
		PROC6,
		PROC8a,
		PROC8b,
		PROC14,
		PROC15

3.2. Conditions of use affecting exposure

3.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c)

Amount used (or contained in articles), frequency and duration of use/exposure

Maximum allowable site tonnage :

(MSafe)

: 100.704 kg

Critical compartment for Msafe : Sewage treatment plant

Release type : Continuous release

Emission days : 300

Technical and organisational conditions and measures

Risk from environmental exposure is driven by soil.

Air - minimum efficiency of 80 %

Water - minimum efficiency of 97,2 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Prevent discharge of undissolved substance to or recover from

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wastewater.

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

STP effluent : 2.000 m3/d

Conditions and measures related to treatment of waste (including article waste)

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

applicable local and/or national regulations.

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

3.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Mixing or blending in batch processes (PROC5) / Calendering operations (PROC6) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Tabletting, compression, extrusion, pelettisation, granulation (PROC14) / Use as laboratory reagent (PROC15)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

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

No other specific measures identified.

Other conditions affecting workers exposure

Temperature : Assumes use at not more than 20°C above ambient

temperature.

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3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4) / Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c)

Protection Target	Exposure estimate	RCR
Air	0,0346 mg/m³ (EUSES)	
Freshwater	0,00284 mg/l (EUSES)	0,237
Freshwater sediment	0,327 mg/kg wet weight (EUSES)	0,124
Sea water	0,000284 μg/l (EUSES)	0,024
Sea sediment	0,0327 mg/kg wet weight (EUSES)	0,003
Soil	0,73 mg/kg wet weight (EUSES)	0,662

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used. Risk from environmental exposure is driven by soil.

3.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Mixing or blending in batch processes (PROC5) / Calendering operations (PROC6) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Tabletting, compression, extrusion, pelettisation, granulation (PROC14) / Use as laboratory reagent (PROC15)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

3.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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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ES 4: Use as an intermediate; Industrial uses (SU3).

4.1. Title section

Exposure Scenario name : Use as an intermediate

Structured Short Title : Use as an intermediate; Industrial uses (SU3).

Substance : oct-1-ene

EC-No.: 203-893-7

Environment

CS 1 Use as an intermediate ERC6a

Worker

CS 2 General measures applicable to all activities, General measures (skin PROC1, irritants)

PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15

4.2. Conditions of use affecting exposure

4.2.1. Control of environmental exposure: Use of intermediate (ERC6a)

Amount used (or contained in articles), frequency and duration of use/exposure

Maximum allowable site tonnage

100.704 kg

(MSafe)

Critical compartment for Msafe : Sewage treatment plant

Release type : Continuous release

Emission days : 300

Technical and organisational conditions and measures

Risk from environmental exposure is driven by soil.

Air - minimum efficiency of 80 %

Water - minimum efficiency of 97,2 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Prevent discharge of undissolved substance to or recover from

wastewater.

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

STP effluent : 2.000 m3/d

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Conditions and measures related to treatment of waste (including article waste)

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

applicable local and/or national regulations.

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

4.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Use as laboratory reagent (PROC15)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

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

No other specific measures identified.

Other conditions affecting workers exposure

Temperature : Assumes use at not more than 20°C above ambient

temperature.

4.3. Exposure estimation and reference to its source

4.3.1. Environmental release and exposure: Use of intermediate (ERC6a)

Protection Target	Exposure estimate	RCR

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Air	0,194 mg/m³ (EUSES)	
Freshwater	0,00142 mg/l (EUSES)	0,118
Freshwater sediment	0,164 mg/kg wet weight (EUSES)	0,062
Sea water	0,000142 mg/l (EUSES)	0,012
Sea sediment	0,0164 mg/kg wet weight (EUSES)	0,001
Soil	0,365 mg/kg wet weight (EUSES)	0,331

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used.

4.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Use as laboratory reagent (PROC15)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

4.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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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ES 5: Use as a fuel - industrial; Industrial uses (SU3).

5.1. Title section

Exposure Scenario name : Use as a fuel - industrial

Structured Short Title : Use as a fuel - industrial; Industrial uses (SU3).

Substance : oct-1-ene

EC-No.: 203-893-7

Environment

CS 1 Use as a fuel - industrial ERC7

Worker

CS 2 General measures applicable to all activities, General measures (skin irritants)

PROC2, PROC3, PROC8a, PROC8b, PROC16

PROC1,

5.2. Conditions of use affecting exposure

5.2.1. Control of environmental exposure: Use of functional fluid at industrial site (ERC7)

Amount used (or contained in articles), frequency and duration of use/exposure

Maximum allowable site tonnage

(MSafe)

: 297.589 kg

Critical compartment for Msafe : Sewage treatment plant

Release type : Continuous release

Emission days : 300

Technical and organisational conditions and measures

Risk from environmental exposure is driven by soil.

Air - minimum efficiency of 95 %

Water - minimum efficiency of 97,2 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Prevent discharge of undissolved substance to or recover from

wastewater.

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

STP effluent : 2.000 m3/d

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Conditions and measures related to treatment of waste (including article waste)

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

applicable local and/or national regulations.

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

5.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Use of fuels (PROC16)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

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

No other specific measures identified.

Other conditions affecting workers exposure

Temperature : Assumes use at not more than 20°C above ambient temperature.

5.3. Exposure estimation and reference to its source

5.3.1. Environmental release and exposure: Use of functional fluid at industrial site (ERC7)

Protection Target	Exposure estimate	RCR
Air	0,00603 mg/m³ (EUSES)	

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Freshwater	0,0000501 mg/l (EUSES)	0,004
Freshwater sediment	0,00577 mg/kg wet weight (EUSES)	0,002
Sea water	0,00502 μg/l (EUSES)	0,000
Sea sediment	0,000578 mg/kg wet weight (EUSES)	0,000
Soil	0,0124 mg/kg wet weight (EUSES)	0,011

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used. Risk from environmental exposure is driven by soil.

5.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Use of fuels (PROC16)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

5.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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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ES 6: Use as a fuel - professional; Professional uses (SU22).

6.1. Title section

Exposure Scenario name : Use as a fuel – professional

Structured Short Title : Use as a fuel – professional; Professional uses (SU22).

Substance : oct-1-ene
EC-No.: 203-893-7

Environ	ment	
CS 1	Use as a fuel – professional	ERC9a, ERC9b
Worker		
CS 2	General measures applicable to all activities, General measures (skin irritants)	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16

6.2. Conditions of use affecting exposure

6.2.1. Control of environmental exposure: Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Amount used (or contained in articles), frequency and duration of use/exposure

Maximum allowable site tonnage

(MSafe)

26.157 kg

Critical compartment for Msafe : Sewage treatment plant

Release type : Continuous release

Emission days : 300

Technical and organisational conditions and measures

Risk from environmental exposure is driven by freshwater sediment.

Air - minimum efficiency of 0 %

Water - minimum efficiency of 97,2 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Prevent discharge of undissolved substance to or recover from

wastewater.

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

STP effluent : 2.000 m3/d

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Conditions and measures related to treatment of waste (including article waste)

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

applicable local and/or national regulations.

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

6.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Use of fuels (PROC16)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

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

Other conditions affecting workers exposure

Temperature : Assumes use at not more than 20°C above ambient

temperature.

6.3. Exposure estimation and reference to its source

6.3.1. Environmental release and exposure: Widespread use of functional fluid (indoor) (ERC9a) / Widespread use of functional fluid (outdoor) (ERC9b)

Protection Target	Exposure estimate	RCR

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Air	0,00412 mg/m³ (EUSES)	
Freshwater	0,0000029 mg/l (EUSES)	0,000
Freshwater sediment	0,000336 mg/kg wet weight (EUSES)	0,000
Sea water	0,0000003 mg/l (EUSES)	0,000
Sea sediment	0,0000341 mg/kg wet weight (EUSES)	0,000
Soil	0,0000399 mg/kg wet weight (EUSES)	0,000

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used. Risk from environmental exposure is driven by freshwater sediment.

6.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Use of fuels (PROC16)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

6.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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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ES 7: Lubricants - Industrial; Industrial uses (SU3).

7.1. Title section

Exposure Scenario name : Lubricants - Industrial

Structured Short Title : Lubricants - Industrial; Industrial uses (SU3).

Substance : oct-1-ene

EC-No.: 203-893-7

Environment

CS 1 Lubricants - Industrial ERC4

Worker

CS 2 General measures applicable to all activities, General measures (skin PROC1, PROC2, PROC3,

PROC4, PROC7, PROC9, PROC8a, PROC10, PROC13, PROC15,

PROC17, PROC18

7.2. Conditions of use affecting exposure

7.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Amount used (or contained in articles), frequency and duration of use/exposure

Maximum allowable site tonnage

: 801.282 kg

(MSafe)

Critical compartment for Msafe : Sewage treatment plant

Emission days : 20

Technical and organisational conditions and measures

Risk from environmental exposure is driven by marine water.

Air - minimum efficiency of 80 %

Water - minimum efficiency of 97,2 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Prevent discharge of undissolved substance to or recover from

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wastewater.

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

STP effluent : 2.000 m3/d

Conditions and measures related to treatment of waste (including article waste)

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

applicable local and/or national regulations.

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

7.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Industrial spraying (PROC7) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Roller application or brushing (PROC10) / Treatment of articles by dipping and pouring (PROC13) / Use as laboratory reagent (PROC15) / Lubrication at high energy conditions in metal working operations (PROC17) / General greasing/lubrication at high kinetic energy conditions (PROC18)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

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

No other specific measures identified.

Other conditions affecting workers exposure

Temperature : Assumes use at not more than 20°C above ambient

temperature.

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7.3. Exposure estimation and reference to its source

7.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Air	0,0045 mg/m³ (EUSES)	
Freshwater	0,0000135 mg/l (EUSES)	0,001
Freshwater sediment	0,00155 mg/kg wet weight (EUSES)	0,000
Sea water	0,0000375 μg/l (EUSES)	0,003
Sea sediment	0,00432 mg/kg wet weight (EUSES)	0,000
Soil	0,00279 mg/kg wet weight (EUSES)	0,003

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used. Risk from environmental exposure is driven by marine water.

7.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Industrial spraying (PROC7) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Roller application or brushing (PROC10) / Treatment of articles by dipping and pouring (PROC13) / Use as laboratory reagent (PROC15) / Lubrication at high energy conditions in metal working operations (PROC17) / General greasing/lubrication at high kinetic energy conditions (PROC18)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

7.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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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ES 8: Metal working fluids / rolling oils - Industrial; Industrial uses (SU3).

8.1. Title section

Exposure Scenario name : Metal working fluids / rolling oils - Industrial

Structured Short Title : Metal working fluids / rolling oils - Industrial; Industrial uses

(SU3).

Substance : oct-1-ene

EC-No.: 203-893-7

Environment

CS 1 Metal working fluids / rolling oils - Industrial

ERC4

Worker

CS 2 General measures applicable to all activities, General measures (skin irritants)

PROC1, PROC2,

PROC3,

PROC4, PROC5,

PROC7, PROC8a,

PROC8b, PROC9.

PROC10, PROC13.

PROC17

8.2. Conditions of use affecting exposure

8.2.1. Control of environmental exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Amount used (or contained in articles), frequency and duration of use/exposure

Maximum allowable site tonnage

: 801.282 kg

(MSafe)

Critical compartment for Msafe : Sewage treatment plant

Emission days : 20

Technical and organisational conditions and measures

Risk from environmental exposure is driven by marine water.

Air - minimum efficiency of 80 %

Water - minimum efficiency of 97,2 %

Conditions and measures related to sewage treatment plant

STP type : Municipal sewage treatment plant

STP sludge treatment : Prevent discharge of undissolved substance to or recover from

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wastewater.

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

STP effluent : 2.000 m3/d

Conditions and measures related to treatment of waste (including article waste)

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

applicable local and/or national regulations.

Other conditions affecting environmental exposure

Receiving surface water flow : 18.000 m3/d

Local freshwater dilution factor : 10

Local marine water dilution factor : 100

8.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Mixing or blending in batch processes (PROC5) / Industrial spraying (PROC7) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Roller application or brushing (PROC10) / Treatment of articles by dipping and pouring (PROC13) / Lubrication at high energy conditions in metal working operations (PROC17)

Product (article) characteristics

Covers percentage substance in the product up to 100 %.

Physical form of product : Liquid, vapour pressure 0.5 - 10 kPa at Standard Temperature

and Pressure

Amount used (or contained in articles), frequency and duration of use/exposure

Duration : Covers daily exposures up to 8 hours

Technical and organisational conditions and measures

Do not ingest. If swallowed then seek immediate medical assistance.

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

No other specific measures identified.

Other conditions affecting workers exposure

Temperature : Assumes use at not more than 20°C above ambient

temperature.

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8.3. Exposure estimation and reference to its source

8.3.1. Environmental release and exposure: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)

Protection Target	Exposure estimate	RCR
Air	0,00488 mg/m³ (EUSES)	
Freshwater	0,0000135 mg/l (EUSES)	0,001
Freshwater sediment	0,00155 mg/kg wet weight (EUSES)	0,001
Sea water	0,0000375 μg/l (EUSES)	0,003
Sea sediment	0,00432 mg/kg wet weight (EUSES)	0,000
Soil	0,00321 mg/kg wet weight (EUSES)	0,003

Additional information on exposure estimation

Common practices vary across sites thus conservative process release estimates used. Risk from environmental exposure is driven by marine water.

8.3.2. Worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1) / Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2) / Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3) / Chemical production where opportunity for exposure arises (PROC4) / Mixing or blending in batch processes (PROC5) / Industrial spraying (PROC7) / Transfer of substance or mixture (charging/discharging) at non dedicated-facilities (PROC8a) / Transfer of substance or mixture (charging/discharging) at dedicated facilities (PROC8b) / Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9) / Roller application or brushing (PROC10) / Treatment of articles by dipping and pouring (PROC13) / Lubrication at high energy conditions in metal working operations (PROC17)

Additional information on exposure estimation

A quantitative risk assessment is not required for human health.

8.4. Guidance to DU to evaluate whether he works inside the boundaries set by the ES

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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