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Safety data sheet

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.
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Product: **OXOOIL 9 N**
(ID no. 30035083/SDS_GEN_IT/EN)
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

OXOOIL 9 N

Chemical name: hydroformylation products of C8-alkenes, high-boiling
CAS Number: 68526-89-6

REACH registration number: 01-2119486463-31-0000

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

Relevant identified uses: solvent(s)

For the detailed identified uses of the product see appendix of the safety data sheet.

1.3. Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY

Contact address:
BASF Italia S.p.A.
Via Marconato 8
20811 Cesano Maderno (MB)
ITALY

Telephone: +39 0362 512-1
E-mail address: Sicurezzaprodotti.BASF-Italia@basf.com

1.4. Emergency telephone number

International emergency number:
Telephone: +49 180 2273-112

CAV “Osp. Pediatrico Bambino Gesù”	Roma 06 68593726
Az. Osp. Univ. Foggia	Foggia 800183459
Az. Osp. "A. Cardarelli"	Napoli 081-5453333

CAV Policlinico "Umberto I"	Roma	06-49978000
CAV Policlinico "A. Gemelli"	Roma	06-3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica	Firenze	055-7947819
CAV Centro Nazionale di Informazione Tossicologica	Pavia	0382-24444
Osp. Niguarda Ca' Granda	Milano	02-66101029
Azienda Ospedaliera Papa Giovanni XXII	Bergamo	800883300
Azienda Ospedaliera Integrata Verona	Verona	800011858

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Skin Sens. 1B	H317 May cause an allergic skin reaction.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:

Signal Word:

Warning

Hazard Statement:

H317	May cause an allergic skin reaction.

Precautionary Statements (Prevention):

P280	Wear protective gloves.
P261	Avoid breathing mist or vapour or spray.

Precautionary Statements (Response):

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.

Hazard determining component(s) for labelling: Octene, hydroformylation products, high-boiling

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.
See section 12 - Results of PBT and vPvB assessment.
Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

Octene, hydroformylation products, high-boiling

Content (W/W): 100 %	Skin Sens. 1B
CAS Number: 68526-89-6	H317
EC-Number: 271-237-7	

Regulatory relevant ingredients

Octene, hydroformylation products, high-boiling

Content (W/W): >= 100 % - <= 100 %	Skin Sens. 1B
	H317
CAS Number: 68526-89-6	
EC-Number: 271-237-7	

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

3.2. Mixtures

Not applicable

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:
Wash thoroughly with soap and water

On contact with eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:
dry powder, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:
water jet

Additional information:
Use extinguishing measures to suit surroundings.

5.2. Special hazards arising from the substance or mixture

Advice: The product is combustible. Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

5.3. Advice for fire-fighters

Special protective equipment:
Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:
Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

High risk of slipping due to leakage/spillage of product.

Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

6.1. Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with the skin, eyes and clothing.

Take off immediately all contaminated clothing.

6.2. Environmental precautions

Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants.

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid all direct contact with the substance/product. Ensure thorough ventilation of stores and work areas. Change clothes immediately after contamination.

Protection against fire and explosion:

No special precautions necessary. Substance/product is non-flammable.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

7.3. Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

No substance specific occupational exposure limits known.

PNEC

freshwater: 10 mg/l

marine water: 1 mg/l

intermittent release: 1 mg/l

STP: 100 mg/l

sediment (freshwater): 400036 mg/kg

sediment (marine water): 40003,6 mg/kg

soil: 1,25 mg/kg

DNEL

No DNELs have been derived.

8.2. Exposure controls

Personal protective equipment

Respiratory protection:
Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:
Chemical resistant protective gloves (EN ISO 374-1)
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):
butyl rubber (butyl) - 0.7 mm coating thickness
Manufacturer's directions for use should be observed because of great diversity of types.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:
Safety glasses with side-shields (frame goggles) (f.e. EN 166) and face shield

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

Environmental exposure controls

All appropriate measures must be taken to prevent the release of this product to the environment and to limit the dispersion of any release when it occurs. Suitable risk management measures should be in place.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	liquid	
Form:	liquid	
Colour:	yellowish clear to cloudy	
Odour:	almost odourless	
Odour threshold:	not determined	
pour point:	< -50 °C	(measured)
Boiling point:	294 °C (1.013 hPa)	(measured)
Flammability:	hardly combustible	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Flash point:	131 °C	(ISO 2719, closed cup)
Auto-ignition temperature:	240 °C	(DIN 51794)
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	

pH value:	4,5 (258 mg/l, 20 °C)	(OECD Guideline 105)
Viscosity, kinematic:	25,55 mm2/s (20 °C)	(DIN 51562)
Viscosity, dynamic:	22 mPa.s (20 °C)	(calculated (from kinematic viscosity))
Thixotropy:	not thixotropic	
Solubility in water:	8 - 258 mg/l (20 °C, pH 4,5 - 5,5)	(OECD Guideline 105)
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Kow):	6,1 - 11,2 (23 °C; pH value: 6,1)	(OECD Guideline 117)
Vapour pressure:	4,1 hPa (20 °C) static	(OECD Guideline 104)
Relative density:	0,8611 (20 °C)	
Density:	0,8611 g/cm3 (20 °C) liquid	(DIN 53217)

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: Based on the chemical structure there is no indication of explosive properties.

Oxidizing properties

Fire promoting properties: Based on its structural properties the product is not classified as oxidizing.

Pyrophoric properties

Self-ignition temperature: Test type: Spontaneous self-ignition at room-temperature.

Based on its structural properties the product is not classified as self-igniting.

Self-heating substances and mixtures

Self heating ability: not applicable, the product is a liquid

Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases:
Forms no flammable gases in the presence of water.

Corrosion to metals

Corrosive effects to metal are not anticipated.

Other safety characteristics

pKA:
The substance does not dissociate.

Adsorption/water - soil: log KOC: > 5,63 (OECD Guideline 121)

Surface tension:
Based on chemical structure, surface activity is not to be expected.

SAPT-Temperature:
Study scientifically not justified.

Evaporation rate:
Value can be approximated from Henry's Law Constant or vapor pressure.

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:	Corrosive effects to metal are not anticipated.	
Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

Reacts with strong oxidizing agents.

10.4. Conditions to avoid

No special precautions other than good housekeeping of chemicals.

10.5. Incompatible materials

Substances to avoid:
strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): > 2.000 mg/kg (OECD Guideline 420)
(by inhalation):Study scientifically not justified.
LD50 rat (dermal): > 2.000 mg/kg (OECD Guideline 402)

Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation

rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Experimental/calculated data:

In-vitro test In vitro assay: skin sensitizing (In vitro skin sensitization test battery)

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture.

Carcinogenicity

Assessment of carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Specific target organ toxicity (single exposure)

Assessment of STOT single:
Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No substance-specific organtoxicity was observed after repeated administration to animals.

Aspiration hazard

No aspiration hazard expected.

Interactive effects

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACh Article 59 for having endocrine disrupting properties.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:
No toxic effects occur within the range of solubility. There is a high probability that the product is not acutely harmful to aquatic organisms. Based on long-term (chronic) toxicity study data, the product is very likely not harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:
LL50 (96 h) > 100 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 84/449/EWG, C.1, semistatic)

The product has low solubility in the test medium. An eluate has been tested. The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates:
EL50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)
The product has low solubility in the test medium. An eluate has been tested. The details of the toxic effect relate to the nominal concentration.

Aquatic plants:
EL50 (72 h) > 100 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201)
The product has low solubility in the test medium. An eluate has been tested. Limit concentration test only (LIMIT test). Nominal concentration.

EL10 (72 h) > 100 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201)
The product has low solubility in the test medium. An eluate has been tested. Limit concentration test only (LIMIT test). Nominal concentration.

EC50 (7 d) > 100 mg/l (growth rate), Lemna gibba (OECD Guideline 221, semistatic)
The product has low solubility in the test medium. A saturated solution has been tested. Limit concentration test only (LIMIT test). No effects at the highest test concentration.

EC10 (7 d) > 100 mg/l (growth rate), Lemna gibba (OECD Guideline 221, semistatic)
The product has low solubility in the test medium. A saturated solution has been tested. Limit concentration test only (LIMIT test). No effects at the highest test concentration.

Microorganisms/Effect on activated sludge:
EC50 (180 min) > 1.000 mg/l, (OECD Guideline 209, static)

Chronic toxicity to fish:
EC10 (36 d) > 10 mg/l, Brachydanio rerio (OECD Guideline 210, Flow through.)
The product has low solubility in the test medium. A saturated solution has been tested. Limit concentration test only (LIMIT test). No effects at the highest test concentration.

Chronic toxicity to aquatic invertebrates:
EC10 (21 d) > 10 mg/l, Daphnia magna (OECD Guideline 211, semistatic)
The product has low solubility in the test medium. A saturated solution has been tested. Limit concentration test only (LIMIT test). No effects at the highest test concentration.

Assessment of terrestrial toxicity:
Toxic effects have been observed in studies with terrestric plants.

Soil living organisms:
LC50 (14 d) > 1.000 mg/kg, Eisenia foetida (OECD Guideline 207, artificial soil)

Terrestrial plants:
No observed effect concentration (21 d) 125 mg/l 125 mg/kg, Brassica napus (OECD Guideline 208)

Other terrestrial non-mammals:
No data available.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):
Biodegradable.

Elimination information:
97 - 100 % CO2 formation relative to the theoretical value (42 d) (OECD 301B; ISO 9439; 92/69/EWG, C.4-C) (aerobic, activated sludge, domestic, non-adapted)

Assessment of stability in water:
According to structural properties, hydrolysis is not expected/probable.

Information on Stability in Water (Hydrolysis):
The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

Bioaccumulation potential:
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

12.4. Mobility in soil

Assessment transport between environmental compartments:
Volatility: No data available.
Adsorption in soil: Adsorption to solid soil phase is expected.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

12.6. Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACh Article 59 for having endocrine disrupting properties.

12.7. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

Results of PMT and vPvM assessment

The substance does not fulfill the PMT criteria. The substance does not fulfill the vPvM criteria.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14: Transport Information

Land transport

ADR

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

RID

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Inland waterway transport
ADN

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user:	None known

Transport in inland waterway vessel
Not evaluated

Sea transport

IMDG

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

14.1. UN number or ID number
See corresponding entries for “UN number or ID number” for the respective regulations in the tables above.

14.2. UN proper shipping name
See corresponding entries for “UN proper shipping name” for the respective regulations in the tables above.

14.3. Transport hazard class(es)
See corresponding entries for “Transport hazard class(es)” for the respective regulations in the tables above.

14.4. Packing group
See corresponding entries for “Packing group” for the respective regulations in the tables above.

14.5. Environmental hazards
See corresponding entries for “Environmental hazards” for the respective regulations in the tables above.

14.6. Special precautions for user
See corresponding entries for “Special precautions for user” for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):
Listed in above regulation: no
Classification applies for standard conditions of temperature and pressure.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Regulations (Italy): 1) 1272/2008/CE Regulation and subsequent amendments; 2) 2012/18/EU Directive (Seveso III) and Legislative Decree 105/2015; 3) Legislative Decree 81/2008 and Legislative Decree 152/2006.

15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Skin Sens. 1B

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Skin Sens.	Skin sensitization
H317	May cause an allergic skin reaction.

Abbreviations
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Annex: Exposure Scenarios

Index

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1. Short title of exposure scenario

Formulation, (use in industrial settings)
ERC2; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 4.10a.v1: ESVOC SpERC 4.10a.v1
Operational conditions	
Annual amount used in the EU	4.300.000 kg
Minimum emission days per year	300
Emission factor air	1 %
Emission factor water	0,002 %

Emission factor soil	0,01 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100

Risk Management Measures	
Air treatment measures considered suitable are, e.g.	Wet scrubber - for dusts, Filtration, Waste gas treatment by thermal oxidation, Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment, Distillation
Soil treatment measures considered suitable are, e.g.	No application of sludge to soil
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d

Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,011688
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	122.629,5 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	

Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity	

training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	

Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Additional good practice advice
Local exhaust ventilation and / or general ventilation are / is advisable.

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

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2. Short title of exposure scenario

Use as processing aid, (use in industrial settings)
ERC4; PROC1, PROC2, PROC3, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 4.4a.v1: ESVOC SpERC 4.4a.v1
Operational conditions	
Annual amount used in the EU	2.000.000 kg
Minimum emission days per year	300
Emission factor air	98 %
Emission factor water	0,007 %
Emission factor soil	0 %

Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Air treatment measures considered suitable are, e.g.	Wet scrubber - for dusts, Filtration, Waste gas treatment by thermal oxidation, Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment, Distillation
Soil treatment measures considered suitable are, e.g.	No application of sludge to soil
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,529335
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1.259,4 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	

Local exhaust ventilation and / or general ventilation are / is advisable.

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	

Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring.

	Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

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3. Short title of exposure scenario

Rubber production and processing, (use in industrial settings)

ERC4; PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 4.21a.v1: ESVOC SpERC 4.21a.v1
Operational conditions	
Annual amount used in the EU	1.000.000 kg
Minimum emission days per year	300
Emission factor air	1 %
Emission factor water	0,003 %
Emission factor soil	0,01 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Air treatment measures considered suitable are, e.g.	Wet scrubber - for dusts, Filtration, Waste gas treatment by thermal oxidation, Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment, Distillation
Soil treatment measures considered suitable are, e.g.	No application of sludge to soil
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,002775
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	120.134,3 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial

Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

	Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial

Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	

Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

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4. Short title of exposure scenario

Mining chemicals, (use in industrial settings)
ERC4; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 4.23.v2
Operational conditions	
Annual amount used in the EU	1.000.000 kg
Minimum emission days per year	100
Emission factor air	25 %
Emission factor water	0 %
Emission factor soil	5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Soil treatment measures considered suitable are, e.g.	No application of sludge to soil

Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,06758
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	14.797,3 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used	

correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the	

RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	

Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and	

work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

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5. Short title of exposure scenario

Use as an intermediate, (use in industrial settings)
ERC6a; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9

Control of exposure and risk management measures

Contributing exposure scenario		
Use descriptors covered	ESVOC SpERC 6.1a.z.v2	
Operational conditions		
Annual amount used in the EU	1.000.000 kg	
Minimum emission days per year	20	
Emission factor air	0 %	
Emission factor water	0,001 %	
Emission factor soil	0,1 %	
Receive Surf. Water (Flow Rate).	18.000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Soil treatment measures considered suitable are, e.g.		No application of sludge to soil
Type of STP		Municipal STP
Assumed sewage treatment plant flow (m3/d)		2.000 m3/d
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0,001978	
	Risk from environmental exposure is driven by freshwater.	
Maximum amount of safe use	2.528,1 t/d	

Risk from environmental exposure is driven by freshwater.	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	

Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	

Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	

Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

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6. Short title of exposure scenario

Use as a Fuel, Use as Fuel additive, (use in industrial settings)
ERC7; PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 7.13a.v1: ESVOC SpERC 7.13a.v1
Operational conditions	
Annual amount used in the EU	1.000.000 kg
Minimum emission days per year	300
Emission factor air	0,025 %
Emission factor water	0,001 %

Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100

Risk Management Measures	
Air treatment measures considered suitable are, e.g.	Waste gas treatment by thermal oxidation
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment, Distillation
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d

Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,013181
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	25.289,2 kg/d

Risk from environmental exposure is driven by soil.

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	

Local exhaust ventilation and / or general ventilation are / is advisable.

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC16: Use of fuels Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

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7. Short title of exposure scenario

Use as processing aid, (use in professional settings)
ERC8a; PROC1, PROC2, PROC3, PROC5, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 8.3b.v2
Operational conditions	
Annual amount used in the EU	500.000 kg
Minimum emission days per year	365
Emission factor air	98 %
Emission factor water	1 %
Emission factor soil	1 %
Receive Surf. Water (Flow Rate).	18.000 m3/d

Dilution factor river	10
Dilution factor coast	100

Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d

Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,010791
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	25,4 kg/d

Risk from environmental exposure is driven by soil.

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional
Operational conditions	
Physical state	liquid

Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: professional
Operational conditions	
Physical state	liquid

Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa

Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used	

correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC19: Manual activities involving hand contact Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	

Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

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8. Short title of exposure scenario

Use as a Fuel, Use as Fuel additive, (use in professional settings)
ERC9a; PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC9, PROC16

Control of exposure and risk management measures

Contributing exposure scenario		
Use descriptors covered	ESVOC SpERC 9.12b.v3	
Operational conditions		
Annual amount used in the EU	500.000 kg	
Minimum emission days per year	365	
Emission factor air	0,5 %	
Emission factor water	1 ppm	
Emission factor soil	0,025 %	
Receive Surf. Water (Flow Rate).	18.000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP		Municipal STP
Assumed sewage treatment plant flow (m3/d)		2.000 m3/d
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.2, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0,001626	
	Risk from environmental exposure is driven by freshwater.	
Maximum amount of safe use	168,5 kg/d	
Risk from environmental exposure is driven by freshwater.		

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	

Local exhaust ventilation and / or general ventilation are / is advisable.

Contributing exposure scenario	
Use descriptors covered	PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Additional good practice advice
Local exhaust ventilation and / or general ventilation are / is advisable.

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

Contributing exposure scenario	
Use descriptors covered	PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	

Local exhaust ventilation and / or general ventilation are / is advisable.

Contributing exposure scenario	
Use descriptors covered	PROC16: Use of fuels Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	410 Pa
Risk Management Measures	
Supervision in place to check that the RMMs in place are being used correctly and OCs followed.	
Regular cleaning of equipment and work area.	
Avoid skin contact.	
Wear chemically resistant gloves in combination with specific activity training	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment
Additional good practice advice	
Local exhaust ventilation and / or general ventilation are / is advisable.	

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