

SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

SBP 40/65 LNH Sustainable

| | | | |
|---------|----------------|--------------|-----------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 12.03.2025 | 800010067568 | Print Date 19.03.2025 |

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

1.1 Product identifier

| | |
|---------------------------------|--|
| Trade name | : SBP 40/65 LNH Sustainable |
| Product code | : Q5114 |
| Synonyms | : Hydrocarbons, C6, Isoalkanes, <5% n-hexane and n-pentane |
| Unique Formula Identifier (UFI) | : XSXK-21S5-6604-RFJG |

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

| | |
|------------------------------|---|
| Use of the Substance/Mixture | : Industrial Solvent. Please refer to section 16 and/or the annexes for the registered uses under REACH. |
|------------------------------|---|

| | |
|----------------------|---|
| Uses advised against | : |
|----------------------|---|

This product must not be used in applications other than the above without first seeking the advice of the supplier.
This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.

1.3 Details of the supplier of the safety data sheet

| | |
|-------------------------------|---|
| Manufacturer/Supplier | : Shell Chemicals Europe B.V. PO Box 2334 3000 CH Rotterdam Netherlands |
| Telephone | : +31 (0)10 441 5137 / +31 (0)10 441 5191 |
| Telefax | : +31 (0)20 716 8316/ +31 (0)20 713 9230 |
| Contact for Safety Data Sheet | : sccmsds@shell.com |

1.4 Emergency telephone number

+44 (0) 1235 239 670 (This telephone number is available 24 hours per day, 7 days per week)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

| | |
|-------------------------------|---|
| Flammable liquids, Category 2 | H225: Highly flammable liquid and vapour. |
| Skin irritation, Category 2 | H315: Causes skin irritation. |

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Specific target organ toxicity - single exposure, Category 3, Narcotic effects

H336: May cause drowsiness or dizziness.

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

Long-term (chronic) aquatic hazard, Category 2

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

PHYSICAL HAZARDS:

H225 Highly flammable liquid and vapour.

HEALTH HAZARDS:

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

ENVIRONMENTAL HAZARDS:

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243 Take action to prevent static discharges.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

Storage:

No precautionary phrases.

Disposal:

No precautionary phrases.

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2.3 Other hazards

Ecological information: 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.

Toxicological information: 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.

No specific hazards under normal use conditions.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|---|---|---|--------------------------|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | Not Assigned 931-254-9 01-2119484651-34 | Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 (Narcotic effects) Aquatic Chronic 2; H411 | <= 70 |
| pentane | 109-66-0 203-692-4 601-006-00-1 01-2119459286-30 | Flam. Liq. 1; H224 Asp. Tox. 1; H304 STOT SE 3; H336 (Narcotic effects) Aquatic Chronic 2; H411 EUH066 | <= 70 |

For explanation of abbreviations see section 16.

Further information

Contains:

| Chemical name | Identification number | Classification | Concentration (% w/w) |
|---------------|--------------------------|---|-----------------------|
| n-Hexane | 110-54-3, 203- 777-6 | Flam. Liq.2; H225 Skin Irrit.2; H315 Asp. Tox.1; H304 STOT RE2; H373 STOT SE3; H336 Repr.2; H361f Aquatic Chronic2; H411 | >= 0 - < 5 |

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|----------------------------|--|
| General advice | : Not expected to be a health hazard when used under normal conditions. |
| Protection of first-aiders | : When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings. |
| If inhaled | : Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. |
| In case of skin contact | : Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment. |
| In case of eye contact | : Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention. |
| If swallowed | : Call emergency number for your location / facility. If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|----------|--|
| Symptoms | : Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and death. |
| | Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. |
| | No specific hazards under normal use conditions. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. |
| | If material enters lungs, signs and symptoms may include |

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coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.
If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Call a doctor or poison control center for guidance.
Potential for chemical pneumonitis.
Treat symptomatically.
Causes central nervous system depression.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media : Do not use water in a jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Clear fire area of all non-emergency personnel.
Hazardous combustion products may include:
A complex mixture of airborne solid and liquid particulates and gases (smoke).
Carbon monoxide.
Unidentified organic and inorganic compounds.
Flammable vapours may be present even at temperatures below the flash point.
The vapour is heavier than air, spreads along the ground and distant ignition is possible.
Will float and can be reignited on surface water.

5.3 Advice for firefighters

Special protective equipment for firefighters : Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

Specific extinguishing methods : Standard procedure for chemical fires.

Further information : Keep adjacent containers cool by spraying with water.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions :

- Observe all relevant local and international regulations.
- Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.
- Local authorities should be advised if significant spillages cannot be contained.

6.1.1 For non emergency personnel:

- Avoid contact with skin, eyes and clothing.
- Isolate hazard area and deny entry to unnecessary or unprotected personnel.
- Do not breathe fumes, vapour.
- Do not operate electrical equipment.

6.1.2 For emergency responders:

- Avoid contact with skin, eyes and clothing.
- Isolate hazard area and deny entry to unnecessary or unprotected personnel.
- Do not breathe fumes, vapour.
- Do not operate electrical equipment.

6.2 Environmental precautions

Environmental precautions :

- Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination.
- Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.
- Monitor area with combustible gas indicator.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up :

- For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
- For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Ventilate contaminated area thoroughly.
If contamination of site occurs remediation may require specialist advice.

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6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.,
For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- | | |
|-------------------------|--|
| Technical measures | : Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material. Ensure that all local regulations regarding handling and storage facilities are followed. |
| Advice on safe handling | : Avoid inhaling vapour and/or mists. Avoid contact with skin, eyes and clothing. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Bulk storage tanks should be diked (bunded). When using do not eat or drink. The vapour is heavier than air, spreads along the ground and distant ignition is possible. |
| Product Transfer | : Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Be aware of handling operations that may give rise to additional hazards that result from the accumulation of static charges. These include but are not limited to pumping (especially turbulent flow), mixing, filtering, splash filling, cleaning and filling of tanks and containers, sampling, switch loading, gauging, vacuum truck operations, and mechanical movements. These activities may lead to static discharge e.g. spark formation. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (≤ 1 m/s until fill pipe submerged to twice its diameter, then ≤ 7 m/s). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations. Refer to guidance under Handling section. |
| Hygiene measures | : Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use. Do not |

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ingest. If swallowed, then seek immediate medical assistance.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.

Further information on storage stability : Storage Temperature:
Ambient.

Bulk storage tanks should be diked (bunded).
Locate tanks away from heat and other sources of ignition.
Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions.
Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat.
Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment.
Electrostatic charges will be generated during pumping.
Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk.
The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.
The storage of this product may be subject to the Control of Pollution (Oil Storage) (England) Regulations. Further guidance may be obtained from the local environmental agency office.

Packaging material : Suitable material: For containers, or container linings use mild steel, stainless steel., For container paints, use epoxy paint, zinc silicate paint.
Unsuitable material: Avoid prolonged contact with natural, butyl or nitrile rubbers.

Container Advice : Do not cut, drill, grind, weld or perform similar operations on or near containers.

7.3 Specific end use(s)

Specific use(s) : Please refer to section 16 and/or the annexes for the registered uses under REACH.

See additional references that provide safe handling practices for liquids that are determined to be static accumulators:
American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or
National Fire Protection Agency 77 (Recommended Practices on Static Electricity).
IEC/TS 60079-32-1: Electrostatic hazards, guidance

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---------------------------------|---------------|-------------------------------|--------------------------|------------|
| Isohexanes | Not As-signed | TWA | 900 mg/m3 | EU HSPA |
| pentane | 109-66-0 | TWA | 600 ppm 1,800 mg/m3 | GB EH40 |
| pentane | | TWA | 1,000 ppm 3,000 mg/m3 | 2006/15/EC |
| Further information: Indicative | | | | |
| pentane | | TWA | 1,000 ppm | ACGIH |
| n-Hexane | 110-54-3 | TWA | 20 ppm 72 mg/m3 | GB EH40 |
| n-Hexane | | TWA | 20 ppm 72 mg/m3 | 2006/15/EC |
| Further information: Indicative | | | | |
| n-Hexane | | TWA | 50 ppm | ACGIH |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|----------------|----------|---|---------------|-----------|
| n-Hexane | 110-54-3 | 2,5-Hexanedione: 0.5 mg/l (Urine) | End of shift | ACGIH BEI |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|--|-----------|-----------------|----------------------------|---------------------|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | Workers | Dermal | Long-term systemic effects | 13964 mg/kg |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | Workers | Inhalation | Long-term systemic effects | 5306 mg/m3 |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | Consumers | Dermal | Long-term systemic effects | 1377 mg/kg |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | Consumers | Inhalation | Long-term systemic effects | 1131 mg/m3 |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | Consumers | Oral | Long-term systemic effects | 1301 mg/kg |
| pentane | Workers | Dermal | Long-term systemic effects | 432 mg/kg bw/day |
| pentane | Workers | Inhalation | Long-term systemic effects | 3000 mg/m3 |
| pentane | Consumers | Dermal | Long-term systemic | 214 mg/kg |

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| | | | | |
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| | | | effects | bw/day |
| pentane | Consumers | Inhalation | Long-term systemic effects | 643 mg/m3 |
| pentane | Consumers | Oral | Long-term systemic effects | 214 mg/kg bw/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|----------------|---------------------------|-----------------------|
| pentane | Water | 0.23 mg/l |
| pentane | Sediment | 1.2 mg/kg |
| pentane | Soil | 0.55 mg/kg wet weight |
| pentane | Sewage treatment plant | 3.6 mg/l |

8.2 Exposure controls

Engineering measures

Read in conjunction with the Exposure Scenario for your specific use contained in the Annex.
Use sealed systems as far as possible.

Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

Local exhaust ventilation is recommended.

Eye washes and showers for emergency use.

Firewater monitors and deluge systems are recommended.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

General Information

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or for subsequent recycle.

Personal protective equipment

Read in conjunction with the Exposure Scenario for your specific use contained in the Annex.

The provided information is made in consideration of the PPE directive (Council Directive 89/686/EEC) and the CEN European Committee for Standardisation (CEN) standards.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye protection : Wear goggles for use against liquids and gas.
Approved to EU Standard EN166.

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If a local risk assessment deems it so then chemical splash goggles may not be required and safety glasses may provide adequate eye protection.

Hand protection

Remarks : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. Longer term protection: Viton. Incidental contact/Splash protection: Nitrile rubber. PVC. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Skin and body protection : Chemical resistant gloves/gauntlets, boots, and apron.
Protective clothing approved to EU Standard EN14605.

Respiratory protection : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. If air-filtering respirators are suitable for conditions of use: Select a filter suitable for organic gases and vapours [Type AX boiling point < 65°C (149°F)] meeting EN14387.

Thermal hazards : Not applicable

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | : Liquid. |
| Colour | : colourless |
| Odour | : Paraffinic |
| Odour Threshold | : Data not available |
| Pour point | : Typical -150 °C |
| Melting point/ range | Data not available |
| Boiling point/boiling range | : Typical 44 - 62 °C |
| Flammability | |
| Flammability (solid, gas) | : Data not available |
| Lower explosion limit and upper explosion limit / flammability limit | |
| Upper explosion limit / Upper flammability limit | : 7.5 %(V) |
| Lower explosion limit / Lower flammability limit | : 1.1 %(V) |
| Flash point | : Typical -43 °C Method: IP 170 |
| Auto-ignition temperature | : 392 °C |
| Decomposition temperature | |
| Decomposition tempera- ture | : Data not available |
| pH | : Not applicable |
| Viscosity | |
| Viscosity, dynamic | : Data not available |
| Viscosity, kinematic | : Typical 0.41 mm ² /s (25 °C) Method: ASTM D445 Typical 0.57 mm ² /s (0 °C) Method: ASTM D445 |
| Solubility(ies) | |

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| | | |
|------------------------------|---|--------------------|
| Water solubility | : | insoluble |
| Solubility in other solvents | : | Data not available |

| | | |
|--|---|--------------------|
| Partition coefficient: n-octanol/water | : | log Pow: 1.1 - 7.5 |
|--|---|--------------------|

| | | |
|-----------------|---|-----------------|
| Vapour pressure | : | 16 kPa (0 °C) |
| | | 33 kPa (20 °C) |
| | | 115 kPa (50 °C) |

| | | |
|------------------|---|--------------------|
| Relative density | : | Data not available |
|------------------|---|--------------------|

| | | |
|---------|---|---------------------------------------|
| Density | : | Typical 658 kg/m ³ (15 °C) |
| | | Method: ASTM D4052 |

| | | |
|-------------------------|---|---|
| Relative vapour density | : | 3 |
|-------------------------|---|---|

| | | |
|--------------------------|---|--------------------|
| Particle characteristics | | |
| Particle size | : | Data not available |

9.2 Other information

| | | |
|----------------------|---|---|
| Explosive properties | : | In use may form flammable/explosive vapour-air mixture. |
|----------------------|---|---|

| | | |
|----------------------|---|----------------|
| Oxidizing properties | : | Not applicable |
|----------------------|---|----------------|

| | | |
|------------------|---|-------------------------------------|
| Evaporation rate | : | 9.6 |
| | | Method: ASTM D 3539, nBuAc=1 |
| | | 1 |
| | | Method: DIN 53170, di-ethyl ether=1 |

| | | |
|--------------|---|------------------------------|
| Conductivity | : | < 0.09 pS/m at 20 °C |
| | | Method: ASTM D-4308 |
| | | Low conductivity: < 100 pS/m |

The conductivity of this material makes it a static accumulator. A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10,000 pS/m. A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid

| | | |
|-----------------|---|--------------------------------------|
| Surface tension | : | Typical 16.8 mN/m, 20 °C, ASTM D-971 |
|-----------------|---|--------------------------------------|

| | | |
|------------------|---|----------|
| Molecular weight | : | 82 g/mol |
|------------------|---|----------|

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SECTION 10: Stability and reactivity

10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

10.2 Chemical stability

No hazardous reaction is expected when handled and stored according to provisions
Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidising agents.

10.4 Conditions to avoid

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources.

In certain circumstances product can ignite due to static electricity.

10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.

10.6 Hazardous decomposition products

Hazardous decomposition products are not expected to form during normal storage.
Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

SECTION 11: Toxicological information

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

Information on likely routes of exposure : Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

Acute toxicity

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg
Remarks: Low toxicity
Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC 50 (Rat): > 20 mg/l
Remarks: Low toxicity by inhalation.
Based on available data, the classification criteria are not met.

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Acute dermal toxicity : LD 50 (Rabbit): 2,000 mg/kg
Remarks: Low toxicity
Based on available data, the classification criteria are not met.

pentane:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50 (Rat, male and female): > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Remarks : Causes skin irritation.

pentane:

Species : Rabbit
Method : Test(s) equivalent or similar to OECD Test Guideline 404
Remarks : Slightly irritating to skin.
Insufficient to classify.

Serious eye damage/eye irritation

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Remarks : Not irritating to eye.

pentane:

Species : Rabbit
Method : OECD Test Guideline 405
Remarks : Slightly irritating.
Insufficient to classify.

Respiratory or skin sensitisation

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Remarks : Not a sensitiser.

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Based on available data, the classification criteria are not met.

pentane:

| | | |
|---------|---|---|
| Species | : | Guinea pig |
| Method | : | OECD Test Guideline 406 |
| Remarks | : | Based on available data, the classification criteria are not met. |

Germ cell mutagenicity

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

| | | |
|----------------------|---|-------------------------|
| Genotoxicity in vivo | : | Remarks: Not mutagenic. |
|----------------------|---|-------------------------|

| | | |
|------------------------------------|---|---|
| Germ cell mutagenicity- Assessment | : | This product does not meet the criteria for classification in categories 1A/1B. |
|------------------------------------|---|---|

pentane:

| | | |
|-----------------------|---|---|
| Genotoxicity in vitro | : | Method: Test(s) equivalent or similar to OECD Guideline 471 Remarks: Based on available data, the classification criteria are not met. |
|-----------------------|---|---|

Method: Directive 67/548/EEC, Annex V, B.10.
Remarks: Based on available data, the classification criteria are not met.

| | | |
|----------------------|---|--|
| Genotoxicity in vivo | : | Species: Rat Method: Directive 67/548/EEC, Annex V, B.12. Remarks: Based on available data, the classification criteria are not met. |
|----------------------|---|--|

| | | |
|------------------------------------|---|---|
| Germ cell mutagenicity- Assessment | : | This product does not meet the criteria for classification in categories 1A/1B. |
|------------------------------------|---|---|

Carcinogenicity

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

| | | |
|---------|---|--|
| Remarks | : | Tumours produced in animals are not considered relevant to humans. Not a carcinogen. Based on available data, the classification criteria are not met. |
|---------|---|--|

| | | |
|------------------------------|---|---|
| Carcinogenicity - Assessment | : | This product does not meet the criteria for classification in categories 1A/1B. |
|------------------------------|---|---|

pentane:

| | | |
|------------------------------|---|---|
| Carcinogenicity - Assessment | : | This product does not meet the criteria for classification in categories 1A/1B. |
|------------------------------|---|---|

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| Material | GHS/CLP Carcinogenicity Classification |
|--|--|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | No carcinogenicity classification. |
| pentane | No carcinogenicity classification. |
| n-Hexane | No carcinogenicity classification. |

Reproductive toxicity

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Effects on fertility : Remarks: Not a developmental toxicant., Does not impair fertility.

Reproductive toxicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

pentane:

Effects on fertility : Species: Rat
Sex: male and female
Application Route: Inhalation

Method: Equivalent or similar to OECD Test Guideline 416
Remarks: Based on available data, the classification criteria are not met.

Reproductive toxicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

STOT - single exposure

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Remarks : May cause drowsiness or dizziness.

pentane:

Exposure routes : Inhalation
Target Organs : Central nervous system
Remarks : May cause drowsiness or dizziness.

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STOT - repeated exposure

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Remarks : Based on available data, the classification criteria are not met.

pentane:

Remarks : Based on available data, the classification criteria are not met.

Repeated dose toxicity

Components:

pentane:

| | |
|-------------------|-----------------------------------|
| Species | : Rat, male and female |
| Application Route | : Inhalation |
| Test atmosphere | : Gas |
| Method | : OECD Test Guideline 413 |
| Target Organs | : No specific target organs noted |

Aspiration toxicity

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

pentane:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : 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.

Further information

Product:

Remarks : Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

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Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Remarks : Exposure to very high concentrations of similar materials has been associated with irregular heart rhythms and cardiac arrest.

Remarks : Classifications by other authorities under varying regulatory frameworks may exist.

pentane:

Remarks : Classifications by other authorities under varying regulatory frameworks may exist.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Toxicity to fish : Remarks: Data not available

Toxicity to daphnia and other aquatic invertebrates : Remarks: LL/EL/IL50 > 1 <= 10 mg/l

Toxicity to algae/aquatic plants : Remarks: Toxic
LC/EC/IC50 >10 - <=100 mg/l

Toxicity to microorganisms :
Remarks: Data not available

Toxicity to fish (Chronic toxicity) : Remarks: Data not available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Data not available

pentane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.26 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Toxic
LL/EL/IL50 > 1 <= 10 mg/l

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.7 mg/l
Exposure time: 48 h

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| | |
|--|---|
| | Method: Test(s) equivalent or similar to OECD Guideline 202 Remarks: Toxic LL/EL/IL50 > 1 <= 10 mg/l |
| Toxicity to algae/aquatic plants | : EC50 (Scenedesmus capricornutum (fresh water algae)): 10.7 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Harmful LL/EL/IL50 >10 <= 100 mg/l |
| Toxicity to microorganisms | : NOEL (Tetrahymena pyriformis): 23.7 mg/l Exposure time: 48 h Method: Based on quantitative structure-activity relationship (QSAR) modelling Remarks: NOEC/NOEL >100 mg/l |
| Toxicity to fish (Chronic toxicity) | : NOELR: 6.165 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Method: Based on quantitative structure-activity relationship (QSAR) modelling Remarks: NOEC/NOEL > 1.0 - <= 10 mg/l |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOELR: 10.76 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: Based on quantitative structure-activity relationship (QSAR) modelling Remarks: No data available |

12.2 Persistence and degradability

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Biodegradability : Remarks: Readily biodegradable.
Oxidises rapidly by photo-chemical reactions in air.

pentane:

Biodegradability : Biodegradation: 87 %
Exposure time: 28 d
Method: Test(s) equivalent or similar to OECD Guideline 301 F
Remarks: Readily biodegradable.
Oxidises rapidly by photo-chemical reactions in air.

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12.3 Bioaccumulative potential

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Bioaccumulation : Remarks: Has the potential to bioaccumulate.

pentane:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): 171
Method: Based on quantitative structure-activity relationship (QSAR) modelling
Remarks: Does not bioaccumulate significantly.

12.4 Mobility in soil

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Mobility : Remarks: Floats on water., If it enters soil, it will adsorb to soil particles and will not be mobile.

pentane:

Mobility : Remarks: Floats on water., If the product enters soil, one or more constituents will or may be mobile and may contaminate groundwater.

12.5 Results of PBT and vPvB assessment

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Assessment : The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB..

pentane:

Assessment : The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB..

12.6 Endocrine disrupting properties

Product:

Assessment : 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.

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12.7 Other adverse effects

Product:

Additional ecological information : Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

Components:

Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Additional ecological information : Does not have ozone depletion potential.

pentane:

Additional ecological information : In view of the high rate of loss from solution, the product is unlikely to pose a significant hazard to aquatic life.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Recover or recycle if possible.
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.
Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.
Do not dispose into the environment, in drains or in water courses.
Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.
Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Waste, spills or used product is dangerous waste.

Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Local regulations may be more stringent than regional or national requirements and must be complied with.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Contaminated packaging : Drain container thoroughly.
After draining, vent in a safe place away from sparks and fire.
Residues may cause an explosion hazard. Do not puncture,

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cut or weld uncleaned drums.
Send to drum recoverer or metal reclaimer.
Comply with any local recovery or waste disposal regulations.

Local legislation

Remarks : Hazardous Waste (England and Wales) Regulations 2005.
Hazardous Waste (England and Wales) Regulations 2005.

SECTION 14: Transport information

14.1 UN number or ID number

| | | |
|------|---|------|
| ADR | : | 1268 |
| RID | : | 1268 |
| IMDG | : | 1268 |
| IATA | : | 1268 |

14.2 UN proper shipping name

| | | |
|------|---|--|
| ADR | : | PETROLEUM DISTILLATES, N.O.S. |
| RID | : | PETROLEUM DISTILLATES, N.O.S. |
| IMDG | : | PETROLEUM DISTILLATES, N.O.S. (NAPHTHA) |
| IATA | : | Petroleum distillates, n.o.s. |

14.3 Transport hazard class(es)

| | | |
|------|---|---|
| ADR | : | 3 |
| RID | : | 3 |
| IMDG | : | 3 |
| IATA | : | 3 |

14.4 Packing group

| | | |
|------------------------------|---|---------------------------------|
| ADR | | |
| Packing group | : | II |
| Classification Code | : | F1 |
| Hazard Identification Number | : | 33 |
| Labels | : | 3 |
| RID | | |
| Packing group | : | II |
| Classification Code | : | F1 |
| Hazard Identification Number | : | 33 |
| Labels | : | 3 |
| Remarks | : | SP640CC: Special provision 640C |

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IMDG

| | | |
|---------------|---|----|
| Packing group | : | II |
| Labels | : | 3 |

IATA

| | | |
|---------------|---|----|
| Packing group | : | II |
| Labels | : | 3 |

14.5 Environmental hazards

ADR

| | | |
|---------------------------|---|-----|
| Environmentally hazardous | : | yes |
|---------------------------|---|-----|

RID

| | | |
|---------------------------|---|-----|
| Environmentally hazardous | : | yes |
|---------------------------|---|-----|

IMDG

| | | |
|------------------|---|-----|
| Marine pollutant | : | yes |
|------------------|---|-----|

14.6 Special precautions for user

| | | |
|---------|---|--|
| Remarks | : | Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport. |
|---------|---|--|

14.7 Maritime transport in bulk according to IMO instruments

| | | |
|--------------------|---|----------------|
| Pollution category | : | Not applicable |
| Ship type | : | Not applicable |
| Product name | : | Not applicable |

SECTION 15: Regulatory information

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

| | | |
|---|---|--|
| REACH - List of substances subject to authorisation (Annex XIV) | : | Product is not subject to Authorisation under REACH. |
|---|---|--|

| | | |
|---|---|---|
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). |
|---|---|---|

| | | |
|---|-----|-------------------|
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | P5c | FLAMMABLE LIQUIDS |
|---|-----|-------------------|

| | |
|----|-----------------------|
| E2 | ENVIRONMENTAL HAZARDS |
|----|-----------------------|

| | | |
|----------------------------|---|---|
| Volatile organic compounds | : | Volatile organic compounds (VOC) content: 100 % |
|----------------------------|---|---|

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Other regulations:

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Environmental Protection Act 1990 (as amended). Health and Safety at Work etc. Act 1974. Consumers Protection Act 1987. Pollution Prevention and Control Act 1999. Environment Act 1995. Factories Act 1961. The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amendment) Regulations 2011. Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended). Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (as amended). Personal Protective Equipment Regulations 2002. Personal Protective Equipment at Work Regulations 1992. Hazardous Waste (England and Wales) Regulations 2005(as amended). Control of Major Accident Hazards Regulations 1999 (as amended). Renewable Transport Fuel Obligations Order 2007 (as amended). Energy Act 2011. Environmental Permitting (England and Wales) Regulations 2010 (as amended). Waste (England and Wales) Regulations 2011 (as amended). Planning (Hazardous Substances) Act 1990 and associated regulations. The Environmental Protection (Controls on Ozone-Depleting Substances) Regulations 2011.

Product is subject to the Control of Major Accident Hazards Regulations 2015 (2015 No. 483) based on Seveso III directive (2012/18/EU).

The components of this product are reported in the following inventories:

| | |
|-------|----------|
| AIIC | : Listed |
| DSL | : Listed |
| IECSC | : Listed |
| ENCS | : Listed |
| KECI | : Listed |
| NZIoC | : Listed |
| PICCS | : Listed |
| TSCA | : Listed |
| TCSI | : Listed |

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

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SECTION 16: Other information

Full text of H-Statements

| | |
|--------|--|
| EUH066 | : Repeated exposure may cause skin dryness or cracking. |
| H224 | : Extremely flammable liquid and vapour. |
| H225 | : Highly flammable liquid and vapour. |
| H304 | : May be fatal if swallowed and enters airways. |
| H315 | : Causes skin irritation. |
| H336 | : May cause drowsiness or dizziness. |
| H361f | : Suspected of damaging fertility. |
| H373 | : May cause damage to organs through prolonged or repeated exposure. |
| H411 | : Toxic to aquatic life with long lasting effects. |

Full text of other abbreviations

| | |
|------------------|--|
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Asp. Tox. | : Aspiration hazard |
| Flam. Liq. | : Flammable liquids |
| Skin Irrit. | : Skin irritation |
| STOT SE | : Specific target organ toxicity - single exposure |
| 2006/15/EC | : Europe. Indicative occupational exposure limit values |
| ACGIH | : USA. ACGIH Threshold Limit Values (TLV) |
| ACGIH BEI | : ACGIH - Biological Exposure Indices (BEI) |
| EU HSPA | : OEL based on European Hydrocarbon Solvents Producers (CEFIC-HSPA) methodology. |
| GB EH40 | : UK. EH40 WEL - Workplace Exposure Limits |
| 2006/15/EC / TWA | : Limit Value - eight hours |
| ACGIH / TWA | : 8-hour, time-weighted average |
| EU HSPA / TWA | : Time-Weighted Average Concentration (TWA) (8 hrs.) |
| GB EH40 / TWA | : Long-term exposure limit (8-hour TWA reference period) |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Ef-

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fect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice : Provide adequate information, instruction and training for operators.

Other information : For Industry guidance and tools on REACH please visit the CEFIC website at <http://cefic.org/Industry-support>.
The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB.

A vertical bar (|) in the left margin indicates an amendment from the previous version.

This product is classified as R66 / EUH066 (Repeated exposure may cause skin dryness or cracking). The risk relates to the potential for repeated or prolonged dermal contact. The risk arising from contact is solely related to the physico-chemical properties of the substance. The risk can therefore be controlled by implementing risk management measures tailored to this specific hazard and included within Section 8 of the SDS. An exposure scenario is not presented.

Sources of key data used to compile the Safety Data Sheet : The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID date base, EC 1272 regulation, etc).

Identified Uses according to the Use Descriptor System

Uses - Worker

Title : Manufacture of substance
- Industrial

Uses - Worker

Title : Distribution of substance
- Industrial

Uses - Worker

Title : Formulation & (re)packing of substances and mixtures

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|----------------|------------------------------|-----------------------------|--|

- Industrial

Uses - Worker

Title : Uses in Coatings
- Industrial

Uses - Worker

Title : Use in Cleaning Agents
- Industrial

Uses - Worker

Title : Use in Cleaning Agents
- Professional

Uses - Worker

Title : Use in laboratories
- Industrial

Uses - Worker

Title : Use in laboratories
- Professional

Identified Uses according to the Use Descriptor System

Uses - Consumer

Title : Use in Cleaning Agents
- Consumer

Uses - Consumer

Title : Other Consumer Uses
- Consumer

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.

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Exposure Scenario - Worker

| | |
|-------------------------|---|
| 300000000830 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Manufacture of substance- Industrial |
| Use Descriptor | Sector of Use: SU 3, SU8, SU9 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15 Environmental Release Categories: ERC1, ERC4, ESVOC SpERC 1.1.v1 |
| Scope of process | Manufacture of the substance or use as a process chemical or extraction agent. Includes recycling/ recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities. |

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|--|---|
| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |
| Section 2.1 | Control of Worker Exposure |
| Product Characteristics | |
| Physical form of product | Liquid, vapour pressure > 10 kPa at STP |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100%., Unless stated otherwise., |
| Frequency and Duration of Use | |
| Covers daily exposures up to 8 hours (unless stated differently). | |
| Other Operational Conditions affecting Exposure | |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | |
| Contributing Scenarios | Risk Management Measures |

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|---|--|
| General measures (skin irritants). | 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. |
| General exposures (closed systems)PROC1PROC2PROC3 | No other specific measures identified. |
| General exposures (open systems)PROC4 | No other specific measures identified. |
| Process samplingPROC8b | No other specific measures identified. |
| Laboratory activitiesPROC15 | No other specific measures identified. |
| Bulk transfers(open sys- | No other specific measures identified. |

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| | |
|---|---|
| tems)PROC8b | |
| Bulk transfers(closed systems)PROC8b | No other specific measures identified. |
| Equipment cleaning and maintenancePROC8a | No other specific measures identified. |
| Storage.PROC1PROC2 | Store substance within a closed system. |
| Section 2.2 Control of Environmental Exposure | |
| Substance is isomeric mixture. | |
| Predominantly hydrophobic. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 1.9E+04 |
| Fraction of Regional tonnage used locally: | 1 |
| Annual site tonnage (tonnes/year): | 1.9E+04 |
| Maximum daily site tonnage (kg/day): | 6.5E+04 |
| Frequency and Duration of Use | |
| Continuous release. | |
| Emission Days (days/year): | 300 |
| Environmental factors not influenced by risk management | |
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |
| Other Operational Conditions affecting Environmental Exposure | |
| Release fraction to air from process (initial release prior to RMM): | 5.0E-02 |
| Release fraction to wastewater from process (initial release prior to RMM): | 3.0E-04 |
| Release fraction to soil from process (initial release prior to RMM): | 1.0E-04 |
| Technical conditions and measures at process level (source) to prevent release | |
| Common practices vary across sites thus conservative process release estimates used. | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | |
| Risk from environmental exposure is driven by freshwater sediment. | |
| Prevent discharge of undissolved substance to or recover from onsite wastewater. | |
| If discharging to domestic sewage treatment plant, no onsite wastewater treatment required. | |
| Treat air emission to provide a typical removal efficiency of (%) | 90 |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 62.4 |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. | 0 |
| Organisational measures to prevent/limit release from site | |
| Do not apply industrial sludge to natural soils. | |
| Sludge should be incinerated, contained or reclaimed. | |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 96.9 |

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| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 96.9 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 7.9E+05 |
| Assumed domestic sewage treatment plant flow (m3/d) | 1.0E+04 |
| Conditions and Measures related to external treatment of waste for disposal | |
| During manufacturing no waste of the substance is generated. | |
| Conditions and measures related to external recovery of waste | |
| During manufacturing no waste of the substance is generated. | |

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| SECTION 3 | EXPOSURE ESTIMATION |
| Section 3.1 - Health | |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. | |

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| Section 3.2 -Environment | |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. | |

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| SECTION 4 | GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO |
| Section 4.1 - Health | |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted. | |

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| Section 4.2 -Environment | |
| 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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Exposure Scenario - Worker

| | |
|-------------------------|--|
| 300000000831 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Distribution of substance- Industrial |
| Use Descriptor | Sector of Use: SU 3, SU8, SU9 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15 Environmental Release Categories: ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7, ESVOC SpERC 1.1b.v1 |
| Scope of process | Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities. |

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| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |
| Section 2.1 | Control of Worker Exposure |
| Product Characteristics | |
| Physical form of product | Liquid, vapour pressure > 10 kPa at STP |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100%., Unless stated otherwise., |
| Frequency and Duration of Use | |
| Covers daily exposures up to 8 hours (unless stated differently). | |
| Other Operational Conditions affecting Exposure | |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | |
| Contributing Scenarios | Risk Management Measures |

| | |
|---|--|
| General measures (skin irritants). | 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. |
| General exposures (closed systems)PROC1PROC2PROC3 | No other specific measures identified. |
| General exposures (open systems)PROC4 | No other specific measures identified. |
| Process samplingPROC3 | No other specific measures identified. |
| Laboratory activitiesPROC15 | No other specific measures identified. |
| Bulk transfers(closed sys- | No other specific measures identified. |

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| | |
|---|---|
| tems)PROC8b | |
| Bulk transfers(open systems)PROC8b | No other specific measures identified. |
| Drum and small package fillingPROC9 | No other specific measures identified. |
| Equipment cleaning and maintenancePROC8a | No other specific measures identified. |
| Storage.PROC1PROC2 | Store substance within a closed system. |
| Section 2.2 Control of Environmental Exposure | |
| Substance is isomeric mixture. | |
| Predominantly hydrophobic. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 383 |
| Fraction of Regional tonnage used locally: | 2.0E-03 |
| Annual site tonnage (tonnes/year): | 0.766 |
| Maximum daily site tonnage (kg/day): | 38.3 |
| Frequency and Duration of Use | |
| Continuous release. | |
| Emission Days (days/year): | 20 |
| Environmental factors not influenced by risk management | |
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |
| Other Operational Conditions affecting Environmental Exposure | |
| Release fraction to air from process (initial release prior to RMM): | 1.0E-03 |
| Release fraction to wastewater from process (initial release prior to RMM): | 1.0E-05 |
| Release fraction to soil from process (initial release prior to RMM): | 1.0E-05 |
| Technical conditions and measures at process level (source) to prevent release | |
| Common practices vary across sites thus conservative process release estimates used. | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | |
| Risk from environmental exposure is driven by freshwater. | |
| No wastewater treatment required. | |
| Prevent discharge of undissolved substance to or recover from onsite wastewater. | |
| Treat air emission to provide a typical removal efficiency of (%) | 90 |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0 |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. | 0 |
| Organisational measures to prevent/limit release from site | |
| Do not apply industrial sludge to natural soils. | |
| Sludge should be incinerated, contained or reclaimed. | |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage | 96.9 |

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| treatment (%) | |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 96.9 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 1.9E+05 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2.0E+03 |
| Conditions and Measures related to external treatment of waste for disposal | |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations. | |
| Conditions and measures related to external recovery of waste | |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations. | |

| | |
|---|----------------------------|
| SECTION 3 | EXPOSURE ESTIMATION |
| Section 3.1 - Health | |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. | |

| | |
|--|--|
| Section 3.2 -Environment | |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. | |

| | |
|--|--|
| SECTION 4 | GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO |
| Section 4.1 - Health | |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. | |

| | |
|--|--|
| Section 4.2 -Environment | |
| 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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Exposure Scenario - Worker

| | |
|-------------------------|---|
| 300000000832 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Formulation & (re)packing of substances and mixtures- Industrial |
| Use Descriptor | Sector of Use: SU 3, SU 10 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15 Environmental Release Categories: ERC2, ESVOC SpERC 2.2.v1 |
| Scope of process | Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities. |

| | |
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| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |
| Section 2.1 | Control of Worker Exposure |
| Product Characteristics | |
| Physical form of product | Liquid, vapour pressure > 10 kPa at STP |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100%., Unless stated otherwise., |
| Frequency and Duration of Use | |
| Covers daily exposures up to 8 hours (unless stated differently). | |
| Other Operational Conditions affecting Exposure | |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | |
| Contributing Scenarios | Risk Management Measures |

| | |
|--|--|
| General measures (skin irritants). | 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. |
| General exposures (closed systems)PROC1PROC2PROC3 | No other specific measures identified. |
| General exposures (open systems)PROC4 | No other specific measures identified. |
| Batch processes at elevated temperaturesOperation is carried out at elevated temperature (> 20°C above ambient temper- | No other specific measures identified. |

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| ature).PROC3 | |
| Process samplingPROC3 | No other specific measures identified. |
| Laboratory activitiesPROC15 | No other specific measures identified. |
| Bulk transfersPROC8b | No other specific measures identified. |
| Mixing operations (open systems)PROC5 | No other specific measures identified. |
| ManualTransfer from/pouring from containersNon-dedicated facilityPROC8a | No other specific measures identified. |
| Drum/batch transfersDedicated facilityPROC8b | No other specific measures identified. |
| Production or preparation or articles by tableting, compression, extrusion or pelletisationPROC14 | No other specific measures identified. |
| Drum and small package fillingPROC9 | No other specific measures identified. |
| Equipment cleaning and maintenancePROC8a | No other specific measures identified. |
| Storage.PROC1PROC2 | Store substance within a closed system. |
| Section 2.2 Control of Environmental Exposure | |
| Substance is isomeric mixture. | |
| Predominantly hydrophobic. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 132 |
| Fraction of Regional tonnage used locally: | 1 |
| Annual site tonnage (tonnes/year): | 132 |
| Maximum daily site tonnage (kg/day): | 1.32E+03 |
| Frequency and Duration of Use | |
| Continuous release. | |
| Emission Days (days/year): | 100 |
| Environmental factors not influenced by risk management | |
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |
| Other Operational Conditions affecting Environmental Exposure | |
| Release fraction to air from process (initial release prior to RMM): | 2.5E-02 |
| Release fraction to wastewater from process (initial release prior to RMM): | 2.0E-04 |
| Release fraction to soil from process (initial release prior to RMM): | 1.0E-04 |
| Technical conditions and measures at process level (source) to prevent release | |
| Common practices vary across sites thus conservative process release estimates used. | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | |
| Risk from environmental exposure is driven by freshwater sediment. | |

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| No wastewater treatment required. | |
| Prevent discharge of undissolved substance to or recover from onsite wastewater. | |
| Treat air emission to provide a typical removal efficiency of (%) | 0 |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of \geq (%) | 0 |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. | 0 |
| Organisational measures to prevent/limit release from site | |
| Do not apply industrial sludge to natural soils. | |
| Sludge should be incinerated, contained or reclaimed. | |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 96.9 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 96.9 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 2.37E+05 |
| Assumed domestic sewage treatment plant flow (m ³ /d) | 2.0E+03 |
| Conditions and Measures related to external treatment of waste for disposal | |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations. | |
| Conditions and measures related to external recovery of waste | |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations. | |

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|---|----------------------------|
| SECTION 3 | EXPOSURE ESTIMATION |
| Section 3.1 - Health | |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. | |

| | |
|--|--|
| Section 3.2 -Environment | |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. | |

| | |
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| SECTION 4 | GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO |
| Section 4.1 - Health | |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. | |

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Section 4.2 -Environment

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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Exposure Scenario - Worker

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| 300000000833 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Uses in Coatings- Industrial |
| Use Descriptor | Sector of Use: SU 3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15 Environmental Release Categories: ERC4, ESVOC SpERC 4.3a.v1 |
| Scope of process | Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities. |

| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES | |
|--|---|--|
| Section 2.1 | Control of Worker Exposure | |
| Product Characteristics | | |
| Physical form of product | Liquid, vapour pressure > 10 kPa at STP | |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100%., Unless stated otherwise., | |
| Frequency and Duration of Use | | |
| Covers daily exposures up to 8 hours (unless stated differently). | | |
| Other Operational Conditions affecting Exposure | | |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | | |
| Contributing Scenarios | | Risk Management Measures |
| General measures (skin irritants). | | 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. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying. |
| General exposures (closed systems)PROC1 | | No other specific measures identified. |
| General exposures (closed | | No other specific measures identified. |

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| systems)with sample collectionUse in contained systemsPROC2 | |
| Film formation - force drying, stoving and other technologies.(closed systems)Operation is carried out at elevated temperature (> 20°C above ambient temperature).PROC2 | No other specific measures identified. |
| Mixing operations (closed systems)Use in contained batch processesPROC3 | No other specific measures identified. |
| Film formation - air dryingPROC4 | No other specific measures identified. |
| Preparation of material for applicationMixing operations (open systems)PROC5 | No other specific measures identified. |
| Spraying (automatic/robotic)PROC7 | No other specific measures identified. |
| ManualSprayingPROC7 | No other specific measures identified. |
| Material transfersNon-dedicated facilityPROC8a | No other specific measures identified. |
| Material transfersDedicated facilityPROC8b | No other specific measures identified. |
| Roller, spreader, flow applicationPROC10 | No other specific measures identified. |
| Dipping, immersion and pouringPROC13 | No other specific measures identified. |
| Laboratory activitiesPROC15 | No other specific measures identified. |
| Material transfersDrum/batch transfersTransfer from/pouring from containersPROC9 | No other specific measures identified. |
| Production or preparation or articles by tableting, compression, extrusion or pelletisationPROC14 | No other specific measures identified. |
| Equipment cleaning and maintenanceTransfer of substance or preparation (charging/ discharging) from/ to vessels/ large containers at dedicated facilities | No other specific measures identified. |
| Storage.Use in closed process, no likelihood of exposureUse in closed, continuous process with occasion- | Store substance within a closed system. |

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| al controlled exposure | |
| Section 2.2 | Control of Environmental Exposure |
| Substance is isomeric mixture. | |
| Predominantly hydrophobic. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 1.49E+03 |
| Fraction of Regional tonnage used locally: | 1 |
| Annual site tonnage (tonnes/year): | 1.49E+03 |
| Maximum daily site tonnage (kg/day): | 1.49E+04 |
| Frequency and Duration of Use | |
| Continuous release. | |
| Emission Days (days/year): | 100 |
| Environmental factors not influenced by risk management | |
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |
| Other Operational Conditions affecting Environmental Exposure | |
| Release fraction to air from process (initial release prior to RMM): | 0.98 |
| Release fraction to wastewater from process (initial release prior to RMM): | 7.0E-04 |
| Release fraction to soil from process (initial release prior to RMM): | 0 |
| Technical conditions and measures at process level (source) to prevent release | |
| Common practices vary across sites thus conservative process re-release estimates used. | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | |
| Risk from environmental exposure is driven by freshwater sediment. | |
| No wastewater treatment required. | |
| Prevent discharge of undissolved substance to or recover from onsite wastewater. | |
| Treat air emission to provide a typical removal efficiency of (%) | 90 |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 86.0 |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. | 0 |
| Organisational measures to prevent/limit release from site | |
| Do not apply industrial sludge to natural soils. | |
| Sludge should be incinerated, contained or reclaimed. | |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 96.9 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 96.9 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 6.78E+04 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2.0E+03 |
| Conditions and Measures related to external treatment of waste for disposal | |
| External treatment and disposal of waste should comply with applicable local and/or regional | |

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regulations.

Conditions and measures related to external recovery of waste

External recovery and recycling of waste should comply with applicable local and/or regional regulations.

SECTION 3

EXPOSURE ESTIMATION

Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 4.1 - Health

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

Section 4.2 -Environment

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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Exposure Scenario - Worker

| | |
|-------------------------|---|
| 300000000835 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Use in Cleaning Agents- Industrial |
| Use Descriptor | Sector of Use: SU 3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13 Environmental Release Categories: ERC4, ESVOC SpERC 4.4a.v1 |
| Scope of process | Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance. |

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| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |
| Section 2.1 | Control of Worker Exposure |
| Product Characteristics | |
| Physical form of product | Liquid, vapour pressure > 10 kPa at STP |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100%., Unless stated otherwise., |
| Frequency and Duration of Use | |
| Covers daily exposures up to 8 hours (unless stated differently). | |
| Other Operational Conditions affecting Exposure | |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | |
| Contributing Scenarios | Risk Management Measures |

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| General measures (skin irritants). | 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. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying. |
| Bulk transfers PROC8a | No other specific measures identified. |
| Automated process with (semi) closed systems. Use in contained | No other specific measures identified. |

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| systemsPROC2 | |
| Automated process with (semi) closed systems.Drum/batch transfersUse in contained batch processesPROC3 | No other specific measures identified. |
| Filling/ preparation of equipment from drums or containers.PROC8b | No other specific measures identified. |
| Use in contained batch processesPROC4 | No other specific measures identified. |
| Degreasing small objects in cleaning stationPROC13 | No other specific measures identified. |
| Cleaning with low-pressure washersPROC7 | No other specific measures identified. |
| Cleaning with high pressure washersPROC7 | No other specific measures identified. |
| ManualSurfacesCleaningPROC10 | No other specific measures identified. |
| Storage.PROC1 | Store substance within a closed system. |
| Section 2.2 Control of Environmental Exposure | |
| Substance is isomeric mixture. | |
| Predominantly hydrophobic. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 108 |
| Fraction of Regional tonnage used locally: | 0.93 |
| Annual site tonnage (tonnes/year): | 100 |
| Maximum daily site tonnage (kg/day): | 5.0E+03 |
| Frequency and Duration of Use | |
| Continuous release. | |
| Emission Days (days/year): | 20 |
| Environmental factors not influenced by risk management | |
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |
| Other Operational Conditions affecting Environmental Exposure | |
| Release fraction to air from process (initial release prior to RMM): | 1.0 |
| Release fraction to wastewater from process (initial release prior to RMM): | 3.0E-06 |
| Release fraction to soil from process (initial release prior to RMM): | 0 |
| Technical conditions and measures at process level (source) to prevent release | |
| Common practices vary across sites thus conservative process release estimates used. | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | |
| Risk from environmental exposure is driven by freshwater sediment. | |
| No wastewater treatment required. | |
| Prevent discharge of undissolved substance to or recover from onsite wastewater. | |
| Treat air emission to provide a typical removal efficiency of (%) | 70 |

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| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of \geq (%) | 0 |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. | 0.0 |
| Organisational measures to prevent/limit release from site | |
| Do not apply industrial sludge to natural soils. | |
| Sludge should be incinerated, contained or reclaimed. | |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 96.9 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 96.9 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 1.58E+07 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2.0E+03 |
| Conditions and Measures related to external treatment of waste for disposal | |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations. | |
| Conditions and measures related to external recovery of waste | |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations. | |

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| SECTION 3 | EXPOSURE ESTIMATION |
| Section 3.1 - Health | |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. | |

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| Section 3.2 -Environment | |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. | |

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| SECTION 4 | GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO |
| Section 4.1 - Health | |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. | |

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| Section 4.2 -Environment | |
| 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 | |

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| measures. |
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| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination. |
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| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. |
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| 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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Exposure Scenario - Worker

| | |
|-------------------------|---|
| 300000000836 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Use in Cleaning Agents- Professional |
| Use Descriptor | Sector of Use: SU 22 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.4b.v1 |
| Scope of process | Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand). |

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| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |
| Section 2.1 | Control of Worker Exposure |
| Product Characteristics | |
| Physical form of product | Liquid, vapour pressure > 10 kPa at STP |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100%, Unless stated otherwise., |
| Frequency and Duration of Use | |
| Covers daily exposures up to 8 hours (unless stated differently). | |
| Other Operational Conditions affecting Exposure | |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | |
| Contributing Scenarios | Risk Management Measures |

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|---|--|
| General measures (skin irritants). | 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. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying. |
| Filling/ preparation of equipment from drums or containers.PROC8b | No other specific measures identified. |
| Automated process with (semi) closed systems.Use in contained | No other specific measures identified. |

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| systemsPROC2 | |
| Automated process with (semi) closed systems.Drum/batch transfersUse in contained systemsPROC3 | No other specific measures identified. |
| Semi Automated process. (e.g.: Semi automatic application of floor care and maintenance products)PROC4 | No other specific measures identified. |
| Filling/ preparation of equipment from drums or containers.PROC8a | No other specific measures identified. |
| ManualSurfacesCleaningDipping, immersion and pouringPROC13 | No other specific measures identified. |
| Cleaning with low-pressure washersRolling, Brushingno sprayingPROC10 | No other specific measures identified. |
| Cleaning with high pressure washersSprayingIndoorPROC11 | No other specific measures identified. |
| Cleaning with high pressure washersSprayingOutdoorPROC11 | No other specific measures identified. |
| ManualSurfacesCleaningPROC10 | No other specific measures identified. |
| Ad hoc manual application via trigger sprays, dipping, etc.Rolling, BrushingPROC10 | No other specific measures identified. |
| Application of cleaning products in closed systemsOutdoorPROC4 | No other specific measures identified. |
| Cleaning of medical devicesPROC4 | No other specific measures identified. |
| Storage.Use in closed process, no likelihood of exposure | Store substance within a closed system. |
| Section 2.2 Control of Environmental Exposure | |
| Substance is isomeric mixture. | |
| Predominantly hydrophobic. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 1.2 |
| Fraction of Regional tonnage used locally: | 5.0E-04 |
| Annual site tonnage (tonnes/year): | 6.0E-04 |
| Maximum daily site tonnage (kg/day): | 1.64E-03 |
| Frequency and Duration of Use | |
| Continuous release. | |
| Emission Days (days/year): | 365 |
| Environmental factors not influenced by risk management | |
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |
| Other Operational Conditions affecting Environmental Exposure | |
| Release fraction to air from wide dispersive use (regional only): | 2.0E-02 |
| Release fraction to wastewater from wide dispersive use: | 1.0E-06 |

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| Release fraction to soil from wide dispersive use (regional only): | 0 |
| Technical conditions and measures at process level (source) to prevent release | |
| Common practices vary across sites thus conservative process release estimates used. | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | |
| Risk from environmental exposure is driven by freshwater. | |
| No wastewater treatment required. | |
| Treat air emission to provide a typical removal efficiency of (%) | 0 |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of \geq (%) | 0 |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. | 0 |
| Organisational measures to prevent/limit release from site | |
| Do not apply industrial sludge to natural soils. | |
| Sludge should be incinerated, contained or reclaimed. | |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 96.9 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 96.9 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 8.46 |
| Assumed domestic sewage treatment plant flow (m ³ /d) | 2.0E+03 |
| Conditions and Measures related to external treatment of waste for disposal | |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations. | |
| Conditions and measures related to external recovery of waste | |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations. | |

| | |
|---|----------------------------|
| SECTION 3 | EXPOSURE ESTIMATION |
| Section 3.1 - Health | |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. | |

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| Section 3.2 -Environment | |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. | |

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| SECTION 4 | GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO |
| Section 4.1 - Health | |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. | |

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Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Section 4.2 -Environment

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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Exposure Scenario - Worker

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| 300000000862 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Use in laboratories- Industrial |
| Use Descriptor | Sector of Use: SU 3 Process Categories: PROC10, PROC15 Environmental Release Categories: ERC2, ERC4 |
| Scope of process | Use of the substance within laboratory settings, including material transfers and equipment cleaning. |

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| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES | |
| Section 2.1 | Control of Worker Exposure | |
| Product Characteristics | | |
| Physical form of product | Liquid, vapour pressure > 10 kPa at STP | |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100%., Unless stated otherwise., | |
| Frequency and Duration of Use | | |
| Covers daily exposures up to 8 hours (unless stated differently). | | |
| Other Operational Conditions affecting Exposure | | |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | | |
| Contributing Scenarios | Risk Management Measures | |
| General measures (skin irritants). | 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. | |
| Laboratory activitiesPROC15 | No other specific measures identified. | |
| CleaningPROC10 | No other specific measures identified. | |
| Section 2.2 | Control of Environmental Exposure | |
| Substance is isomeric mixture. | | |
| Predominantly hydrophobic. | | |
| Readily biodegradable. | | |
| Amounts Used | | |
| Fraction of EU tonnage used in region: | | 0.1 |
| Regional use tonnage (tonnes/year): | | 3.5 |
| Fraction of Regional tonnage used locally: | | 0.57 |
| Annual site tonnage (tonnes/year): | | 2.0 |
| Maximum daily site tonnage (kg/day): | | 100 |

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| Frequency and Duration of Use | |
| Continuous release. | |
| Emission Days (days/year): | 20 |
| Environmental factors not influenced by risk management | |
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |
| Other Operational Conditions affecting Environmental Exposure | |
| Release fraction to air from process (initial release prior to RMM): | 2.5E-02 |
| Release fraction to wastewater from process (initial release prior to RMM): | 2.0E-02 |
| Release fraction to soil from process (initial release prior to RMM): | 1.0E-04 |
| Technical conditions and measures at process level (source) to prevent release | |
| Common practices vary across sites thus conservative process re-release estimates used. | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | |
| Risk from environmental exposure is driven by freshwater sediment. | |
| No wastewater treatment required. | |
| Prevent discharge of undissolved substance to or recover from onsite wastewater. | |
| Treat air emission to provide a typical removal efficiency of (%) | 0 |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 27.2 |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. | 0.0 |
| Organisational measures to prevent/limit release from site | |
| Do not apply industrial sludge to natural soils. | |
| Sludge should be incinerated, contained or reclaimed. | |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 96.9 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 96.9 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 2.37E+03 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2.0E+03 |
| Conditions and Measures related to external treatment of waste for disposal | |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations. | |
| Conditions and measures related to external recovery of waste | |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations. | |

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|---|----------------------------|
| SECTION 3 | EXPOSURE ESTIMATION |
| Section 3.1 - Health | |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. | |

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Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 4.1 - Health

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

Section 4.2 -Environment

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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Exposure Scenario - Worker

| | |
|-------------------------|--|
| 300000000863 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Use in laboratories- Professional |
| Use Descriptor | Sector of Use: SU 22 Process Categories: PROC10, PROC15 Environmental Release Categories: ERC8a, ESVOC SpERC 8.17.v1 |
| Scope of process | Use of small quantities within laboratory settings, including material transfers and equipment cleaning. |

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| SECTION 2 | | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES | |
| Section 2.1 | | Control of Worker Exposure | |
| Product Characteristics | | | |
| Physical form of product | | Liquid, vapour pressure > 10 kPa at STP | |
| Concentration of the Substance in Mixture/Article | | Covers percentage substance in the product up to 100%., Unless stated otherwise., | |
| Frequency and Duration of Use | | | |
| Covers daily exposures up to 8 hours (unless stated differently). | | | |
| Other Operational Conditions affecting Exposure | | | |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | | | |
| Contributing Scenarios | | Risk Management Measures | |
| General measures (skin irritants). | | 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. | |
| Laboratory activitiesPROC15 | | No other specific measures identified. | |
| CleaningPROC10 | | No other specific measures identified. | |
| Section 2.2 | | Control of Environmental Exposure | |
| Substance is isomeric mixture. | | | |
| Predominantly hydrophobic. | | | |
| Readily biodegradable. | | | |
| Amounts Used | | | |
| Fraction of EU tonnage used in region: | | | 0.1 |
| Regional use tonnage (tonnes/year): | | | 1.5 |
| Fraction of Regional tonnage used locally: | | | 5.0E-04 |
| Annual site tonnage (tonnes/year): | | | 7.5E-04 |

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| Maximum daily site tonnage (kg/day): | 2.05E-03 |
| Frequency and Duration of Use | |
| Continuous release. | |
| Emission Days (days/year): | 365 |
| Environmental factors not influenced by risk management | |
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |
| Other Operational Conditions affecting Environmental Exposure | |
| Release fraction to air from wide dispersive use (regional only): | 0.5 |
| Release fraction to wastewater from wide dispersive use: | 0.5 |
| Release fraction to soil from wide dispersive use (regional only): | 0 |
| Technical conditions and measures at process level (source) to prevent release | |
| Common practices vary across sites thus conservative process re-lease estimates used. | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | |
| Risk from environmental exposure is driven by freshwater. | |
| No wastewater treatment required. | |
| Treat air emission to provide a typical removal efficiency of (%) | 0 |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0 |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. | 0 |
| Organisational measures to prevent/limit release from site | |
| Do not apply industrial sludge to natural soils. | |
| Sludge should be incinerated, contained or reclaimed. | |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 96.9 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 96.9 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 9.64 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2.0E+03 |
| Conditions and Measures related to external treatment of waste for disposal | |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations. | |
| Conditions and measures related to external recovery of waste | |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations. | |

| | |
|---|----------------------------|
| SECTION 3 | EXPOSURE ESTIMATION |
| Section 3.1 - Health | |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. | |

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Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

SECTION 4

GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 4.1 - Health

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

Section 4.2 -Environment

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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Exposure Scenario - Consumer

| | |
|-------------------------|--|
| 300000001132 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Use in Cleaning Agents - Consumer |
| Use Descriptor | Sector of Use: SU 21 Product Categories: PC3, PC4, PC8 (excipient only), PC9a, PC24, PC35, PC38 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.4c.v1 |
| Scope of process | Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products. |

| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES | |
|---|---|--------|
| Section 2.1 | Control of Consumer Exposure | |
| Product Characteristics | | |
| Physical form of product | Liquid, vapour pressure > 10 Pa at STP | |
| Concentration of the Sub- stance in Mixture/Article | Unless stated otherwise. | |
| | Covers concentration up to (%): 100 % | |
| Amounts Used | | |
| Unless stated otherwise. | | |
| covers amount up to (g): | | 13,800 |
| covers skin contact area (cm2): | | 857.5 |
| Frequency and Duration of Use | | |
| Unless stated otherwise. | | |
| covers use up to (times/day of use): | | 4 |
| Exposure (hours/event): | | 8 |
| Other Operational Conditions affecting Exposure | | |
| Unless stated otherwise. Covers use at ambient temperatures. Covers use in room size of 20m3 Covers use under typical household ventilation. | | |
| Product Categories | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES | |
| Air care products Air care, instant action (aerosol sprays). | Covers concentrations up to 50 % | |
| | covers use up to 365 day/year | |
| | covers use up to 4 times/day of use | |
| | For each use event, covers amount up to 0.1 g | |
| | Covers use under typical household ventilation. | |
| | Covers use in room size of 20 m3 | |

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| | for each use event Covers exposure up to 0.25 hours/event |
| Air care products Air care, instant action (aerosol sprays). pesticides (excipient only). | Covers concentrations up to 50 % |
| | covers use up to 365 day/year |
| | Covers use up to 4 times/day of use |
| | For each use event, covers amount up to 5 g |
| | Covers use under typical household ventilation. |
| | Covers use in room size of 20 m3 |
| | for each use event Covers exposure up to 0.25 hours/event |
| Air care products Air care, continuous action (solid and liquid). | Covers concentrations up to 10 % |
| | covers use up to 365 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 35.70 cm2 |
| | For each use event, covers amount up to 0.48 g |
| | Covers use under typical household ventilation. |
| | Covers use in room size of 20 m3 |
| | for each use event Covers exposure up to 8.00 hours/event |
| Air care products Air care, continuous action (solid and liquid). pesticides (excipient only). | Covers concentrations up to 50 % |
| | covers use up to 365 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 35.70 cm2 |
| | For each use event, covers amount up to 0.48 g |
| | Covers use under typical household ventilation. |
| | Covers use in room size of 20 m3 |
| | for each use event Covers exposure up to 8.00 hours/event |
| Anti-Freeze and de-icing products Washing car window. | Covers concentrations up to 1 % |
| | covers use up to 365 day/year |
| | Covers use up to 1 times/day of use |
| | For each use event, covers amount up to 0.5 g |
| | Covers use in a one car garage (34 m3) under typical ventilation. |
| | Covers use in room size of 34 m3 |
| | for each use event Covers exposure up to 0.02 hours/event |
| Anti-Freeze and de-icing products Pouring into radiator. | Covers concentrations up to 10 % |
| | covers use up to 365 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 428.00 cm2 |
| | For each use event, covers amount up to 2,000 g |
| | Covers use in a one car garage (34 m3) under typical ventilation. |

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| | Covers use in room size of 34 m3 |
| | for each use event Covers exposure up to 0.17 hours/event |
| Anti-Freeze and de-icing products Lock de-icer. | Covers concentrations up to 50 % |
| | covers use up to 365 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 214.40 cm2 |
| | For each use event, covers amount up to 4 g |
| | Covers use in a one car garage (34 m3) under typical ventilation. |
| | Covers use in room size of 34 m3 |
| | for each use event Covers exposure up to 0.25 hours/event |
| Biocidal products (e.g. Disinfectants, pest control) (excipient only). Laundry and dish washing products. | Covers concentrations up to 5 % |
| | covers use up to 365 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 857.50 cm2 |
| | For each use event, covers amount up to 15 g |
| | Covers use under typical household ventilation. |
| | Covers use in room size of 20 m3 |
| | for each use event Covers exposure up to 0.50 hours/event |
| Biocidal products (e.g. Disinfectants, pest control) (excipient only). Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners). | Covers concentrations up to 5 % |
| | covers use up to 128 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 857.50 cm2 |
| | For each use event, covers amount up to 27 g |
| | Covers use under typical household ventilation. |
| | Covers use in room size of 20 m3 |
| | for each use event Covers exposure up to 0.33 hours/event |
| Biocidal products (e.g. Disinfectants, pest control) (excipient only). Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners). | Covers concentrations up to 15 % |
| | covers use up to 128 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 428.00 cm2 |
| | For each use event, covers amount up to 35 g |
| | Covers use under typical household ventilation. |
| | Covers use in room size of 20 m3 |
| | for each use event Covers exposure up to 0.17 hours/event |

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| Coatings and paints, thinners, paint removers Removers (paint-, glue-, wall paper-, sealant-remover). | Covers concentrations up to 50 % |
| | covers use up to 3 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 857.50 cm2 |
| | For each use event, covers amount up to 491 g |
| | Covers use under typical household ventilation. |
| | Covers use in room size of 20 m3 |
| | for each use event Covers exposure up to 2.00 hours/event |
| Lubricants, greases, re-release products Liquids. | Covers concentrations up to 100 % |
| | covers use up to 4 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 468.00 cm2 |
| | For each use event, covers amount up to 2,200 g |
| | Covers use in a one car garage (34 m3) under typical ventilation. |
| | Covers use in room size of 34 m3 |
| | for each use event Covers exposure up to 0.17 hours/event |
| Lubricants, greases, re-release products Pastes. | Covers concentrations up to 20 % |
| | covers use up to 10 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 468.00 cm2 |
| | For each use event, covers amount up to 34 g |
| Lubricants, greases, re-release products Sprays. | Covers concentrations up to 50 % |
| | covers use up to 6 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 428.75 cm2 |
| | For each use event, covers amount up to 73 g |
| | Covers use under typical household ventilation. |
| | Covers use in room size of 20 m3 |
| | for each use event Covers exposure up to 0.17 hours/event |
| Washing and cleaning products (including solvent based products) Laundry and dish washing products. | Covers concentrations up to 5 % |
| | covers use up to 365 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 857.50 cm2 |
| | For each use event, covers amount up to 15 g |
| | Covers use under typical household ventilation. |
| | Covers use in room size of 20 m3 |
| | for each use event Covers exposure up to 0.50 hours/event |
| Washing and cleaning products (including solvent based products) Cleaners, liquids (all purpose clean- | Covers concentrations up to 5 % |

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| ers, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners). | |
| | covers use up to 128 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 857.50 cm2 |
| | For each use event, covers amount up to 27 g |
| | Covers use under typical household ventilation. |
| | Covers use in room size of 20 m3 |
| | for each use event Covers exposure up to 0.33 hours/event |
| Washing and cleaning products (including solvent based products) Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners). | Covers concentrations up to 15 % |
| | covers use up to 128 day/year |
| | Covers use up to 1 times/day of use |
| | covers skin contact area up to (cm2): 428.00 cm2 |
| | For each use event, assumes swallowed amount of 35 g |
| | Covers use under typical household ventilation. |
| | Covers use in room size of 20 m3 |
| | for each use event Covers exposure up to 0.17 hours/event |
| Welding and soldering products (with flux coatings or flux cores.), flux products | Covers concentrations up to 20 % |
| | covers use up to 365 day/year |
| | Covers use up to 1 times/day of use |
| | For each use event, covers amount up to 12 g |
| | Covers use under typical household ventilation. |
| | Covers use in room size of 20 m3 |
| | for each use event Covers exposure up to 1.00 hours/event |

| Section 2.2 | Control of Environmental Exposure |
|--|-----------------------------------|
| Substance is isomeric mixture. | |
| Predominantly hydrophobic. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 67.9 |
| Fraction of Regional tonnage used locally: | 5.0E-04 |
| Annual site tonnage (tonnes/year): | 3.4E-02 |
| Maximum daily site tonnage (kg/day): | 9.3E-02 |
| Frequency and Duration of Use | |
| Continuous release. | |
| Emission Days (days/year): | 365 |
| Environmental factors not influenced by risk management | |
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |
| Other Operational Conditions affecting Environmental Exposure | |

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|---|---------|
| Release fraction to air from wide dispersive use (regional only): | 0.95 |
| Release fraction to wastewater from wide dispersive use: | 2.5E-02 |
| Release fraction to soil from wide dispersive use (regional only): | 2.5E-02 |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 96.9 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 96.9 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 392 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2.0E+03 |
| Conditions and Measures related to external treatment of waste for disposal | |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations. | |
| Conditions and measures related to external recovery of waste | |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations. | |

| | |
|--|----------------------------|
| SECTION 3 | EXPOSURE ESTIMATION |
| Section 3.1 - Health | |
| The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated. | |

| | |
|--|--|
| Section 3.2 -Environment | |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. | |

| | |
|---|--|
| SECTION 4 | GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO |
| Section 4.1 - Health | |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. | |

| | |
|--|--|
| Section 4.2 -Environment | |
| 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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Exposure Scenario - Consumer

| | |
|-------------------------|---|
| 300000001140 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Other Consumer Uses - Consumer |
| Use Descriptor | Sector of Use: SU 21 Product Categories: PC28, PC29 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.16.v1 |
| Scope of process | Consumer uses e.g. as a carrier in cosmetics/personal care products, perfumes and fragrances. Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation. |

| | |
|--------------------------------|--|
| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |
| Additional Information | No exposure assessment presented for human health. |
| Section 2.1 | Control of Consumer Exposure |
| Product Characteristics | |
| Product Categories | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |

| | |
|---|--|
| Section 2.2 | Control of Environmental Exposure |
| Substance is isomeric mixture. | |
| Predominantly hydrophobic. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 5.0 |
| Fraction of Regional tonnage used locally: | 5.0E-04 |
| Annual site tonnage (tonnes/year): | 2.5E-03 |
| Maximum daily site tonnage (kg/day): | 6.8E-03 |
| Frequency and Duration of Use | |
| Continuous release. | |
| Emission Days (days/year): | 365 |
| Environmental factors not influenced by risk management | |
| Local freshwater dilution factor: | 10 |
| Local marine water dilution factor: | 100 |
| Other Operational Conditions affecting Environmental Exposure | |
| Release fraction to air from wide dispersive use (regional only): | 0.95 |
| Release fraction to wastewater from wide dispersive use: | 2.5E-02 |
| Release fraction to soil from wide dispersive use (regional only): | 2.5E-02 |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 96.9 |

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| | |
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| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 35 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2.0E+03 |
| Conditions and Measures related to external treatment of waste for disposal | |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations. | |
| Conditions and measures related to external recovery of waste | |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations. | |

| | |
|--|----------------------------|
| SECTION 3 | EXPOSURE ESTIMATION |
| Section 3.1 - Health | |
| No exposure assessment presented for human health. | |

| | |
|--|--|
| Section 3.2 -Environment | |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. | |

| | |
|--|--|
| SECTION 4 | GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO |
| Section 4.1 - Health | |
| No exposure assessment presented for human health. | |

| | |
|--|--|
| Section 4.2 -Environment | |
| 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). | |