

SAFETY DATA SHEET

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

Methyl PROXITOL Acetate Sustainable

| | | | |
|---------|----------------|--------------|-----------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 29.04.2024 | 800010064197 | Print Date 06.05.2024 |

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

1.1 Product identifier

| | |
|------------------------|--|
| Trade name | : Methyl PROXITOL Acetate Sustainable |
| Product code | : U5226 |
| Registration number EU | : 01-2119475791-29 |
| Synonyms | : 1-methoxy-2-propanol acetate, 1-methoxy-2-propyl acetate, PGMEA, PMA |
| CAS-No. | : 108-65-6 |

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

| | |
|------------------------------|--|
| Use of the Substance/Mixture | : 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. |

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)

| | |
|-------------------|---|
| Other information | : PROXITOL is a trademark owned by Shell Trademark Management B.V. and Shell Brands Inc. and used by affiliates of Shell plc. |
|-------------------|---|

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

| | |
|---|--|
| Flammable liquids, Category 3 | H226: Flammable liquid and vapour. |
| Specific target organ toxicity - single exposure, Category 3, Oral, Central nerv- | H336: May cause drowsiness or dizziness. |

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ous system

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements :
PHYSICAL HAZARDS:
H226 Flammable liquid and vapour.
HEALTH HAZARDS:
H336 May cause drowsiness or dizziness.
ENVIRONMENTAL HAZARDS:
Not classified as environmental hazard according to CLP criteria.

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use only non-sparking tools.
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.
P271 Use only outdoors or in a well-ventilated area.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P370 + P378 In case of fire: Use appropriate media to extinguish.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/ doctor if you feel unwell.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P235 Keep cool.

Disposal:

P501 Dispose of contents and container to appropriate waste

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site or reclaimer in accordance with local and national regulations.

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.

Vapours are heavier than air. Vapours may travel across the ground and reach remote ignition sources causing a flashback fire danger.

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.

Slightly irritating to respiratory system.

Slightly irritating to the eye.

Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.1 Substances

Components

| Chemical name | CAS-No. EC-No. | Concentration (% w/w) |
|------------------------------|-----------------------|-----------------------|
| 1-Methoxy-2-acetoxyp propane | 108-65-6 203-603-9 | >= 99.8 |

Further information

Contains:

| Chemical name | Identification number | Classification | Concentration (% w/w) |
|--------------------------|-----------------------|--|-----------------------|
| 2-methoxypropyl acetate | 70657-70-4, 274-724-2 | | < 0.1 |
| 2-methoxypropanol | 1589-47-5, 216-455-5 | Flam. Liq.3; H226 Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H335 Repr.1B; H360D | <= 0.01 |
| 1-Methoxypropane-2-ol | 107-98-2, 203-539-1 | Flam. Liq.3; H226 STOT SE3; H336 | <= 0.01 |
| Butylated hydroxytoluene | 128-37-0, 204-881-4 | Aquatic Chronic1; H410 Aquatic Acute1; H400 | <= 0.0025 |

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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. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. |
| 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 | : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice. |

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, or swelling. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Ingestion may result in nausea, vomiting and/or diarrhoea. |
|----------|---|

4.3 Indication of any immediate medical attention and special treatment needed

| | |
|-----------|---|
| Treatment | : Call a doctor or poison control center for guidance. Treat symptomatically. Causes central nervous system depression. |
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SECTION 5: Firefighting measures

5.1 Extinguishing media

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

Unsuitable extinguishing media : None

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : The vapour is heavier than air, spreads along the ground and distant ignition is possible.
Carbon monoxide may be evolved if incomplete combustion occurs.

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 : Clear fire area of all non-emergency personnel.
Keep adjacent containers cool by spraying with water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Observe the 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.
The vapour is heavier than air, spreads along the ground and distant ignition is possible.
Vapour may form an explosive mixture with air.
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.
Stay upwind and keep out of low areas.
6.1.2 For emergency responders:
Avoid contact with skin, eyes and clothing.

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Isolate hazard area and deny entry to unnecessary or unprotected personnel.
Stay upwind and keep out of low areas.

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. Ventilate contaminated area thoroughly. Monitor area with combustible gas indicator.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : 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. 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.

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 contact with skin, eyes and clothing.
Use local exhaust ventilation if there is risk of inhalation of

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vapours, mists or aerosols.
Bulk storage tanks should be diked (bunded).
Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks.
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.
Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.
Do NOT use compressed air for filling, discharging, or handling operations.

Product Transfer : Refer to guidance under Handling section.

7.2 Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| Requirements for storage areas and containers | : The vapour is heavier than air. Beware of accumulation in pits and confined spaces. Refer to section 15 for any additional specific legislation covering the packaging and storage of this product. |
| Packaging material | : Suitable material: For containers, or container linings use mild steel, stainless steel. Unsuitable material: Natural, butyl, neoprene or nitrile rubbers. |
| Container Advice | : Containers, even those that have been emptied, can contain explosive vapours. 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. Ensure that all local regulations regarding handling and storage facilities are followed. See additional references that provide safe handling practices: 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 |
|-----------------|--|

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

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| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|------------------------------|--|------------------------------------|----------------------|------------|
| 1-Methoxy-2-acetoxyp propane | 108-65-6 | TWA | 50 ppm 274 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| 1-Methoxy-2-acetoxyp propane | | STEL | 100 ppm 548 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| 1-Methoxy-2-acetoxyp propane | | STEL | 100 ppm 550 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| 1-Methoxy-2-acetoxyp propane | | TWA | 50 ppm 275 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| 1-Methoxypropane-2-ol | 107-98-2 | TWA | 100 ppm 375 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| 1-Methoxypropane-2-ol | | STEL | 150 ppm 560 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| 1-Methoxypropane-2-ol | | TWA | 50 ppm | ACGIH |
| 1-Methoxypropane-2-ol | | STEL | 100 ppm | ACGIH |
| Butylated hydroxy-toluene | 128-37-0 | TWA | 10 mg/m3 | GB EH40 |
| Butylated hydroxy-toluene | | TWA (Inhalable fraction and vapor) | 2 mg/m3 | ACGIH |

Biological occupational exposure limits

No biological limit allocated.

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

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|---------|-----------------|--------------------------|-------------|
| 1-Methoxy-2- | Workers | Dermal | Long-term systemic | 153.5 mg/kg |

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| | | | | |
|------------------------------|-----------|------------|----------------------------|-------------------|
| acetoxyp propane | | | effects | bw/day |
| 1-Methoxy-2-acetoxyp propane | Workers | Inhalation | Long-term systemic effects | 275 mg/m3 |
| 1-Methoxy-2-acetoxyp propane | Consumers | Dermal | Long-term systemic effects | 54.8 mg/kg bw/day |
| 1-Methoxy-2-acetoxyp propane | Consumers | Inhalation | Long-term systemic effects | 33 mg/m3 |
| 1-Methoxy-2-acetoxyp propane | Consumers | Oral | Long-term systemic effects | 1.67 mg/kg bw/day |

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

| Substance name | Environmental Compartment | Value |
|------------------------------|---------------------------|-------------------------------|
| 1-Methoxy-2-acetoxyp propane | Fresh water | 0.635 mg/l |
| 1-Methoxy-2-acetoxyp propane | Fresh water sediment | 3.29 mg/kg dry weight (d.w.) |
| 1-Methoxy-2-acetoxyp propane | Marine sediment | 0.329 mg/kg dry weight (d.w.) |
| 1-Methoxy-2-acetoxyp propane | Soil | 0.29 mg/kg dry weight (d.w.) |
| 1-Methoxy-2-acetoxyp propane | Sewage treatment plant | 100 mg/l |

8.2 Exposure controls

Engineering measures

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

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.

Firewater monitors and deluge systems are recommended.

Eye washes and showers for emergency use.

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

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 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

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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 : If material is handled such that it could be splashed into eyes, protective eyewear is recommended.
Approved to EU Standard EN166.

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: butyl-rubber Nitrile rubber gloves.
Incidental contact/Splash protection: Nitrile rubber gloves.
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 : Skin protection is not required under normal conditions of use.
For prolonged or repeated exposures use impervious clothing over parts of the body subject to exposure.
If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to relevant Standard, and provide employee skin care programmes.

Protective clothing approved to EU Standard EN14605.

Wear antistatic and flame-retardant clothing, if a local risk assessment deems it so.

Respiratory protection : If engineering controls do not maintain airborne concentra-

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tions 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 A boiling point > 65°C (149°F)] meeting EN14387.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | |
|--|---|--------------------|
| Physical state | : | Liquid. |
| Colour | : | clear |
| Odour | : | Ethereal |
| Odour Threshold | : | Data not available |
| Melting / freezing point | : | -65 °C |
| Boiling point/boiling range | : | 143 - 149 °C |
| Flammability | | |
| Flammability (solid, gas) | : | Data not available |
| Lower explosion limit and upper explosion limit / flammability limit | | |
| Upper explosion limit / upper flammability limit | : | 7 %(V) |
| Lower explosion limit / Lower flammability limit | : | 1.5 %(V) |
| Flash point | : | 45 °C |
| Auto-ignition temperature | : | 333 °C |
| Decomposition temperature | | |
| Decomposition temperature | : | Data not available |
| pH | : | Not applicable |

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Viscosity
Viscosity, dynamic : 1.23 mPa.s (20 °C)
Method: ASTM D445

Viscosity, kinematic : Data not available

Solubility(ies)
Water solubility : 198 g/l (20 °C)

Partition coefficient: n-octanol/water : log Pow: 1.2

Vapour pressure : 502 Pa (25 °C)

Relative density : 0.96 - 0.97 (20 °C)
Method: ASTM D4052

Density : 967 kg/m³ (20 °C)
Method: ASTM D4052

Relative vapour density : 4.6

Particle characteristics
Particle size : Data not available

9.2 Other information

Explosive properties : Not applicable

Oxidizing properties : Data not available

Evaporation rate : 0.3
Method: ASTM D 3539, nBuAc=1

Conductivity : Electrical conductivity: > 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, This material is not expected to be a static accumulator.

Surface tension : 27.6 mN/m, 20 °C

Molecular weight : 132 g/mol

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.

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10.2 Chemical stability

No hazardous reaction is expected when handled and stored according to provisions

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.
Prevent vapour accumulation.
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

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:

1-Methoxy-2-acetoxyp propane:

Acute oral toxicity : LD50: > 5000 mg/kg
Remarks: Low toxicity

Acute inhalation toxicity : Remarks: Low toxicity by inhalation.

Acute dermal toxicity : LD50: > 5000 mg/kg
Remarks: Low toxicity

Skin corrosion/irritation

Components:

1-Methoxy-2-acetoxyp propane:

Remarks : Not irritating to skin.
Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

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Serious eye damage/eye irritation

Components:

1-Methoxy-2-acetoxyp propane:

Remarks : Slightly irritating to the eye.
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Components:

1-Methoxy-2-acetoxyp propane:

Remarks : Not a skin sensitiser.

Germ cell mutagenicity

Components:

1-Methoxy-2-acetoxyp propane:

Genotoxicity in vivo : Remarks: Non mutagenic
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:

1-Methoxy-2-acetoxyp propane:

Remarks : 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.

| Material | GHS/CLP Carcinogenicity Classification |
|------------------------------|--|
| 1-Methoxy-2-acetoxyp propane | No carcinogenicity classification. |
| 2-methoxypropyl acetate | No carcinogenicity classification. |
| 2-methoxypropanol | No carcinogenicity classification. |
| 1-Methoxypropane-2-ol | No carcinogenicity classification. |
| Butylated hydroxytoluene | No carcinogenicity classification. |

| Material | Other Carcinogenicity Classification |
|----------|--------------------------------------|
|----------|--------------------------------------|

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| | |
|--------------------------|---|
| Butylated hydroxytoluene | IARC: Group 3: Not classifiable as to its carcinogenicity to humans |
|--------------------------|---|

Reproductive toxicity

Components:

1-Methoxy-2-acetoxyp propane:

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

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

STOT - single exposure

Components:

1-Methoxy-2-acetoxyp propane:

Remarks : Inhalation of vapours or mists may cause irritation to the respiratory system.

STOT - repeated exposure

Components:

1-Methoxy-2-acetoxyp propane:

Remarks : Kidney: caused kidney effects in male rats which are not considered relevant to humans
Based on available data, the classification criteria are not met.

Aspiration toxicity

Components:

1-Methoxy-2-acetoxyp propane:

Not an aspiration hazard., Based on available data, the classification criteria are not met.

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.

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Further information

Product:

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

Components:

1-Methoxy-2-acetoxyp propane:

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

SECTION 12: Ecological information

12.1 Toxicity

Components:

1-Methoxy-2-acetoxyp propane:

| | | |
|--|---|--|
| Toxicity to fish | : | Remarks: Low toxicity LC/EC/IC50 > 100 mg/l |
| Toxicity to daphnia and other aquatic invertebrates | : | Remarks: Low toxicity LC/EC/IC50 > 100 mg/l |
| Toxicity to algae/aquatic plants | : | Remarks: Low toxicity LC/EC/IC50 > 100 mg/l |
| Toxicity to microorganisms | : | Remarks: Low toxicity LC/EC/IC50 > 100 mg/l |
| Toxicity to fish (Chronic toxicity) | : | Remarks: NOEC/NOEL > 10 - <=100 mg/l |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | Remarks: NOEC/NOEL > 100 mg/l |

12.2 Persistence and degradability

Components:

1-Methoxy-2-acetoxyp propane:

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

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12.3 Bioaccumulative potential

Components:

1-Methoxy-2-acetoxyp propane:

Bioaccumulation : Remarks: Does not bioaccumulate significantly.

12.4 Mobility in soil

Components:

1-Methoxy-2-acetoxyp propane:

Mobility : Remarks: Dissolves in water., If product enters soil, it will be highly mobile and may contaminate groundwater.

12.5 Results of PBT and vPvB assessment

Components:

1-Methoxy-2-acetoxyp propane:

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.

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).

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.
Do not dispose into the environment, in drains or in water courses.
Waste product should not be allowed to contaminate soil or

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ground water, or be disposed of into the environment.
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, cut, or weld uncleaned drums.
Send to drum recoverer or metal reclaimer.

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

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

SECTION 14: Transport information

14.1 UN number or ID number

| | | |
|------|---|------|
| ADR | : | 3272 |
| RID | : | 3272 |
| IMDG | : | 3272 |
| IATA | : | 3272 |

14.2 UN proper shipping name

| | | |
|------|---|---|
| ADR | : | ESTERS, N.O.S. (Propylene Glycol Monomethyl Ether Acetate) |
| RID | : | ESTERS, N.O.S. (Propylene Glycol Monomethyl Ether Acetate) |
| IMDG | : | ESTERS, N.O.S. (Propylene Glycol Monomethyl Ether Acetate) |
| IATA | : | Esters, n.o.s. (Propylene Glycol Monomethyl Ether Acetate) |

14.3 Transport hazard class(es)

| | | |
|-----|---|---|
| ADR | : | 3 |
|-----|---|---|

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RID : 3

IMDG : 3

IATA : 3

14.4 Packing group

ADR

Packing group : III

Classification Code : F1

Hazard Identification Number : 30

Labels : 3

RID

Packing group : III

Classification Code : F1

Hazard Identification Number : 30

Labels : 3

IMDG

Packing group : III

Labels : 3

IATA

Packing group : III

Labels : 3

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

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 : Z

Ship type : 3

Product name : Propylene glycol methyl ether acetate

Additional Information : This product may be transported under nitrogen blanketing. Nitrogen is an odourless and invisible gas. Exposure to nitrogen may cause asphyxiation or death. Personnel must observe strict safety precautions when involved with a confined space entry.

Transport in bulk according to Annex II of Marpol and the IBC

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Code

SECTION 15: Regulatory information

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

- | | | |
|--|---|---|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : | Conditions of restriction for the following entries should be considered: 2-methoxypropyl acetate (Number on list 30) 2-methoxypropanol (Number on list 30) |
| 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 |
|---|-----|-------------------|

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).

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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.

SECTION 16: Other information

Full text of other abbreviations

| | |
|-------------------|--|
| 2000/39/EC | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| ACGIH | : USA. ACGIH Threshold Limit Values (TLV) |
| GB EH40 | : UK. EH40 WEL - Workplace Exposure Limits |
| 2000/39/EC / TWA | : Limit Value - eight hours |
| 2000/39/EC / STEL | : Short term exposure limit |
| ACGIH / TWA | : 8-hour, time-weighted average |
| ACGIH / STEL | : Short-term exposure limit |
| GB EH40 / TWA | : Long-term exposure limit (8-hour TWA reference period) |
| GB EH40 / STEL | : Short-term exposure limit (15-minute 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 - Interna-

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tional 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) Effect 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; TECI - 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.

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 data base, EC 1272 regulation, etc).

Classification of the mixture:

| | |
|--------------|------|
| Flam. Liq. 3 | H226 |
| STOT SE 3 | H336 |

Classification procedure:

On basis of test data.
Expert judgement and weight of evidence determination.

Identified Uses according to the Use Descriptor System

Uses - Worker

Title : Manufacture 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 : Uses in Coatings
- Professional

Uses - Worker

Title : Use in Cleaning Agents
- Industrial

Uses - Worker

Title : Use in Cleaning Agents
- Professional

Uses - Worker

Title : Use in Agrochemicals uses
- Professional

Identified Uses according to the Use Descriptor System

Uses - Consumer

Title : Uses in Coatings
- Consumer

Uses - Consumer

Title : Use in Cleaning Agents
- Consumer

Uses - Consumer

Title : Use in Agrochemicals 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

| | |
|-------------------------|---|
| 300000000475 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Manufacture of substance- Industrial |
| Use Descriptor | Sector of Use: SU3, SU8, SU9 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 Environmental Release Categories: ERC1, ERC4 |
| 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. |

| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES | |
|---|--|--|
| Section 2.1 | Control of Worker Exposure | |
| Product Characteristics | | |
| Physical form of product | Liquid, vapour pressure < 0.5 kPa at STP | |
| Concentration of the Substance in Mixture/Article | Covers use of substance/product up to 100% (unless stated differently)., | |
| Frequency and Duration of Use | | |
| Covers daily exposures up to 8 hours (unless stated differently). | | |
| Other Operational Conditions affecting Exposure | | |
| Assumes activities are at ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | | |
| Contributing Scenarios | Risk Management Measures | |
| General exposures.Continuous process(closed systems)PROC1 | No other specific measures identified. | |
| General exposures.Continuous process-with sample collection(closed systems)PROC2 | No other specific measures identified. | |
| Use in contained batch processesPROC3 | No other specific measures identified. | |
| General exposures (open systems)PROC4 | No other specific measures identified. | |
| Process sampling(closed systems)PROC3 | No other specific measures identified. | |
| Equipment cleaning and maintenancePROC8a | No other specific measures identified. | |
| Bulk transfersDedicated | Clear transfer lines prior to de-coupling. | |

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| | |
|---|--|
| facilityPROC8b | |
| Bulk product storage(closed systems)PROC2 | No other specific measures identified. |
| Laboratory activitiesPROC15 | No other specific measures identified. |
| Section 2.2 | Control of Environmental Exposure |
| Substance is a unique structure. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 1 |
| Regional use tonnage (tonnes/year): | 8.6E+04 |
| Fraction of Regional tonnage used locally: | 1 |
| Annual site tonnage (tonnes/year): | 8.6E+04 |
| Maximum daily site tonnage (kg/day): | 2.9E+05 |
| 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): | 2.7E-03 |
| Release fraction to wastewater from process (initial release prior to RMM): | 8.6E-08 |
| 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 marine water. | |
| 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 >= (%) | 87.3 |
| 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 (%) | 87.3 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 87.3 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2,000 |
| Conditions and Measures related to external treatment of waste for disposal | |

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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.

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

Used ECETOC TRA 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 - Worker

300000000476

| SECTION 1 | EXPOSURE SCENARIO TITLE |
|------------------|---|
| Title | Formulation & (re)packing of substances and mixtures- Industrial |
| Use Descriptor | Sector of Use: SU3, SU10 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 14, PROC 15 Environmental Release Categories: ERC2 |
| 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. |

| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |
|---|--|
| Section 2.1 | Control of Worker Exposure |
| Product Characteristics | |
| Physical form of product | Liquid, vapour pressure < 0.5 kPa at STP |
| Concentration of the Substance in Mixture/Article | Covers use of substance/product up to 100% (unless stated differently)., |
| Frequency and Duration of Use | |
| Covers daily exposures up to 8 hours (unless stated differently). | |
| Other Operational Conditions affecting Exposure | |
| Assumes activities are at ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | |
| Contributing Scenarios | Risk Management Measures |
| General exposures. Continuous process- with sample collection(closed systems)PROC1PROC2 | No other specific measures identified. |
| General exposures. Use in contained batch process- with sample collectionPROC3 | No other specific measures identified. |
| General exposures (open systems)PROC4 | No other specific measures identified. |
| Batch processes at elevated temperatures(closed systems)PROC3 | No other specific measures identified. |
| Bulk transfersDedicated facilityPROC8b | No other specific measures identified. |
| Mixing operations (open | Provide a good standard of general ventilation (not less than |

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| | |
|---|--|
| systems)PROC5 | 3 to 5 air changes per hour). |
| ManualTransfer from/pouring from containersPROC8a | No other specific measures identified. |
| Equipment cleaning and maintenancePROC8a | 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 fillingDedicated facilityPROC9 | No other specific measures identified. |
| Bulk product storage(closed systems)PROC2 | No other specific measures identified. |
| Laboratory activitiesPROC15 | No other specific measures identified. |
| Section 2.2 | Control of Environmental Exposure |
| Substance is a unique structure. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 5.3E+03 |
| Fraction of Regional tonnage used locally: | 1 |
| Annual site tonnage (tonnes/year): | 5.3E+03 |
| Maximum daily site tonnage (kg/day): | 2.3E+04 |
| Frequency and Duration of Use | |
| Continuous release. | |
| Emission Days (days/year): | 225 |
| 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): | 0.006 |
| Release fraction to wastewater from process (initial release prior to RMM): | 0E+00 |
| Release fraction to soil from process (initial release prior to RMM): | 0E+00 |
| 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 soil. | |
| Prevent discharge of undissolved substance to or recover from onsite wastewater. | |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. | |
| Treat air emission to provide a typical removal efficiency of (%) | 0 |

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| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of \geq (%) | 87.3 |
| 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 (%) | 87.3 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 87.3 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 5.7E+06 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2,000 |
| 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 | |
| Used ECETOC TRA 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. 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 | |

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| 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

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| 300000000477 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Uses in Coatings- Industrial |
| Use Descriptor | Sector of Use: SU3 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13, PROC 15 Environmental Release Categories: ERC4 |
| 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 < 0.5 kPa at STP | |
| Concentration of the Substance in Mixture/Article | Covers use of substance/product up to 100% (unless stated differently)., | |
| Frequency and Duration of Use | | |
| Covers daily exposures up to 8 hours (unless stated differently). | | |
| Other Operational Conditions affecting Exposure | | |
| Assumes activities are at ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. Covers the percentage of the substance in the product up to 100 % (unless stated differently). | | |
| Contributing Scenarios | Risk Management Measures | |
| General exposures (closed systems)with sample collectionPROC1PROC2 | No other specific measures identified. | |
| Film formation - force drying, stoving and other technologies.PROC2 | No other specific measures identified. | |
| Mixing operations (closed systems)PROC3 | 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. | |

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| Spraying (automatic/robotic)PROC7 | Carry out in a vented booth or extracted enclosure. |
| SprayingManualPROC7 | Carry out in a vented booth or extracted enclosure. , or: Wear a respirator conforming to EN140 with Type A/P2 filter or better. |
| Material transfer-sPROC8aPROC8b | 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. |
| Section 2.2 | Control of Environmental Exposure |
| Substance is a unique structure. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 1 |
| Regional use tonnage (tonnes/year): | 5.3E+04 |
| Fraction of Regional tonnage used locally: | 0.25 |
| Annual site tonnage (tonnes/year): | 1.3E+04 |
| Maximum daily site tonnage (kg/day): | 4.4E+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): | 0.02 |
| Release fraction to wastewater from process (initial release prior to RMM): | 0E+00 |
| Release fraction to soil from process (initial release prior to RMM): | 0E+00 |
| 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 soil. | |
| Prevent discharge of undissolved substance to or recover from onsite wastewater. | |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. | |
| Treat air emission to provide a typical removal efficiency of (%) | 98 |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 87.3 |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. | 0 |
| Organisational measures to prevent/limit release from site | |

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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 (%) | 87.3 |
|---|------|

| | |
|--|------|
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 87.3 |
|--|------|

| | |
|---|---------|
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 4.2E+06 |
|---|---------|

| | |
|---|-------|
| Assumed domestic sewage treatment plant flow (m3/d) | 2,000 |
|---|-------|

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

Used ECETOC TRA 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 - Worker

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| SECTION 1 | EXPOSURE SCENARIO TITLE |
|------------------|--|
| Title | Uses in Coatings- Professional |
| Use Descriptor | Sector of Use: SU22 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.3b.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, brush, spreader by hand or similar methods, 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 < 0.5 kPa at STP |
| Concentration of the Substance in Mixture/Article | Covers use of substance/product up to 100% (unless stated differently)., |
| Frequency and Duration of Use | |
| Covers daily exposures up to 8 hours (unless stated differently). | |
| Other Operational Conditions affecting Exposure | |
| Assumes activities are at ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. Covers the percentage of the substance in the product up to 100 % (unless stated differently). | |
| Contributing Scenarios | Risk Management Measures |

| | |
|--|--|
| Filling/ preparation of equipment from drums or containers.PROC2 | No other specific measures identified. |
| General exposures (closed systems)Use in contained systemsPROC1PROC2 | No other specific measures identified. |
| Preparation of material for applicationPROC3PROC5 | No other specific measures identified. |
| Film formation - air dryingPROC4 | No other specific measures identified. |
| Material transfersDrum/batch transfersPROC8aPROC8b | No other specific measures identified. |
| Roller, spreader, flow applicationPROC10 | No other specific measures identified. |

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| SprayingManualIndoorPROC11 | Carry out in a vented booth or extracted enclosure. |
| SprayingManualOutdoorPROC11 | Wear a respirator conforming to EN140 with Type A/P2 filter or better. |
| Dipping, immersion and pouringPROC13 | No other specific measures identified. |
| Laboratory activitiesPROC15 | No other specific measures identified. |
| Hand application - fingerpaints, pastels, adhesivesPROC19 | Wear suitable gloves tested to EN374. |
| Section 2.2 Control of Environmental Exposure | |
| Substance is a unique structure. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 5.3E+03 |
| Fraction of Regional tonnage used locally: | 0.0005 |
| Annual site tonnage (tonnes/year): | 2.7 |
| Maximum daily site tonnage (kg/day): | 7.3 |
| 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 process (initial release prior to RMM): | 0.98 |
| Release fraction to wastewater from process (initial release prior to RMM): | 1.00E-02 |
| Release fraction to soil from process (initial release prior to RMM): | 1.00E-02 |
| 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 marine water. | |
| Prevent discharge of undissolved substance to or recover from onsite wastewater. | |
| If discharging to domestic sewage treatment plant, no secondary 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 >= (%) | 87.3 |
| 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 | |

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| | |
|---|-------|
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 87.3 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 87.3 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2,000 |
| 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 | |
| Used ECETOC TRA 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. 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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| SECTION 1 | EXPOSURE SCENARIO TITLE |
|------------------|---|
| Title | Use in Cleaning Agents- Industrial |
| Use Descriptor | Sector of Use: SU3 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13 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. |

| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |
|---|--|
| Section 2.1 | Control of Worker Exposure |
| Product Characteristics | |
| Physical form of product | Liquid, vapour pressure < 0.5 kPa at STP |
| Concentration of the Substance in Mixture/Article | Covers use of substance/product up to 100% (unless stated differently)., |
| Frequency and Duration of Use | |
| Covers daily exposures up to 8 hours (unless stated differently). | |
| Other Operational Conditions affecting Exposure | |
| Assumes activities are at ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | |
| Contributing Scenarios | Risk Management Measures |
| Bulk transfersPROC8a | No other specific measures identified. |
| Use in contained system- sAutomated process with (semi) closed systems.PROC1PROC2 | No other specific measures identified. |
| Drum/batch transfer- sPROC3 | No other specific measures identified. |
| Filling/ preparation of equipment from drums or containers.Dedicated facilityPROC8b | No other specific measures identified. |
| Use in contained batch processesTreatment by heatingPROC4 | No other specific measures identified. |
| Degreasing small objects in | No other specific measures identified. |

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| cleaning stationPROC13 | |
| Cleaning with low-pressure washersPROC10 | No other specific measures identified. |
| Cleaning with high pressure washersPROC7 | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Avoid carrying out activities involving exposure for more than 4 hours Wear suitable gloves tested to EN374. |
| CleaningSurfacesno sprayingManualPROC10 | No other specific measures identified. |
| Section 2.2 | Control of Environmental Exposure |
| Substance is a unique structure. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 1 |
| Regional use tonnage (tonnes/year): | 8,415 |
| Fraction of Regional tonnage used locally: | 0.0005 |
| Annual site tonnage (tonnes/year): | 4.2 |
| Maximum daily site tonnage (kg/day): | 210 |
| 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): | 3.0E-01 |
| Release fraction to wastewater from process (initial release prior to RMM): | 1.0E-04 |
| Release fraction to soil from process (initial release prior to RMM): | 0E+00 |
| 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 marine water. | |
| Prevent discharge of undissolved substance to or recover from onsite wastewater. | |
| If discharging to domestic sewage treatment plant, no secondary 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 >= (%) | 87.3 |
| 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 | |

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|---|---------|
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 87.3 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 87.3 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 4.4E+05 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2,000 |
| 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 |
| Used ECETOC TRA 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 - Worker

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| 300000000480 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Use in Cleaning Agents- Professional |
| Use Descriptor | Sector of Use: SU22 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13 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). |

| | |
|---|---|
| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |
| Section 2.1 | Control of Worker Exposure |
| Product Characteristics | |
| Physical form of product | Liquid, vapour pressure < 0.5 kPa at STP |
| Concentration of the Substance in Mixture/Article | Covers use of substance/product up to 100% (unless stated differently). |
| Frequency and Duration of Use | |
| Covers daily exposures up to 8 hours (unless stated differently). | |
| Other Operational Conditions affecting Exposure | |
| Assumes activities are at ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | |
| Contributing Scenarios | Risk Management Measures |

| | |
|--|--|
| Filling/ preparation of equipment from drums or containers.Dedicated facilityPROC3PROC8b | No other specific measures identified. |
| Use in contained systemsAutomated process with (semi) closed systems.PROC1PROC2 | 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.Non-dedicated facilityOutdoorPROC8a | Ensure operation is undertaken outdoors. |
| ManualCleaningSurfacesDipping, immersion and pouringPROC13 | No other specific measures identified. |

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|---|---|
| Cleaning with low-pressure washersPROC10 | No other specific measures identified. |
| Cleaning with high pressure washersIndoorPROC11 | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour). Wear suitable gloves tested to EN374. |
| Cleaning with high pressure washersOutdoorPROC11 | Limit the substance content in the product to 25 %. , or: Avoid carrying out activities involving exposure for more than 4 hours Ensure operation is undertaken outdoors. Wear suitable gloves tested to EN374. |
| Ad hoc manual application via trigger sprays, dipping, etc.Rolling, BrushingPROC10 | No other specific measures identified. |
| Cleaning of medical devicesPROC4 | No other specific measures identified. |
| Section 2.2 Control of Environmental Exposure | |
| Substance is a unique structure. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 842 |
| Fraction of Regional tonnage used locally: | 0.005 |
| Annual site tonnage (tonnes/year): | 4.2 |
| Maximum daily site tonnage (kg/day): | 11.5 |
| 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 process (initial release prior to RMM): | 0.02 |
| Release fraction to wastewater from process (initial release prior to RMM): | 1.00E-06 |
| Release fraction to soil from process (initial release prior to RMM): | 0E+00 |
| 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 soil. | |
| Prevent discharge of undissolved substance to or recover from onsite wastewater. | |
| If discharging to domestic sewage treatment plant, no secondary 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 >= (%) | 87.3 |

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| | |
|---|-------|
| 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 (%) | 87.3 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 87.3 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 187 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2,000 |
| 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 |
| Used ECETOC TRA 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. 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 |

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| (http://cefic.org/en/reach-for-industries-libraries.html). |
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Exposure Scenario - Worker

| | |
|-------------------------|--|
| 300000000483 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Use in Agrochemicals uses- Professional |
| Use Descriptor | Sector of Use: SU22 Process Categories: PROC 1, PROC 2, PROC 4, PROC 8a, PROC 8b, PROC 11, PROC 13 Environmental Release Categories: ERC8a, ERC8d |
| Scope of process | Use as an agrochemical excipient for application by manual or machine spraying, smokes and fogging; including equipment clean-downs and disposal. |

| SECTION 2 | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES | |
|---|---|--|
| Section 2.1 | Control of Worker Exposure | |
| Product Characteristics | | |
| Physical form of product | Liquid, vapour pressure < 0.5 kPa at STP | |
| Concentration of the Substance in Mixture/Article | Limit the substance content in the mixture to 50 %., | |
| Frequency and Duration of Use | | |
| Covers daily exposures up to 8 hours (unless stated differently). | | |
| Other Operational Conditions affecting Exposure | | |
| Assumes activities are at ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. | | |
| Contributing Scenarios | Risk Management Measures | |
| General exposures (closed systems)PROC1 | No other specific measures identified. | |
| Transfer from/pouring from containersDedicated facilityPROC8b | No other specific measures identified. | |
| Mixing operations (open systems)OutdoorPROC4 | No other specific measures identified. | |
| Spraying/ fogging by manual applicationOutdoorPROC11 | Ensure operation is undertaken outdoors. Wear suitable gloves tested to EN374. | |
| Spraying/ fogging by machine applicationPROC11 | Carry out in a vented booth or extracted enclosure. | |
| Ad hoc manual application via trigger sprays, dipping, etc.PROC13 | No other specific measures identified. | |
| Equipment cleaning and maintenancePROC8a | No other specific measures identified. | |
| Disposal of wastesOutdoorPROC8a | Ensure operation is undertaken outdoors. | |
| Storage.OutdoorPROC2 | No other specific measures identified. | |

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| Section 2.2 | | Control of Environmental Exposure |
| Substance is a unique structure. | | |
| Readily biodegradable. | | |
| Amounts Used | | |
| Fraction of EU tonnage used in region: | | 0.1 |
| Regional use tonnage (tonnes/year): | | 66 |
| Fraction of Regional tonnage used locally: | | 1 |
| Annual site tonnage (tonnes/year): | | 66 |
| Maximum daily site tonnage (kg/day): | | 180 |
| 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 process (initial release prior to RMM): | | 1 |
| Release fraction to wastewater from process (initial release prior to RMM): | | 0E+00 |
| Release fraction to soil from process (initial release prior to RMM): | | 0E+00 |
| 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 marine water. | | |
| Prevent discharge of undissolved substance to or recover from onsite wastewater. | | |
| If discharging to domestic sewage treatment plant, no secondary 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 >= (%) | | 87.3 |
| 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 (%) | | 87.3 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | | 87.3 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | | 104 |
| Assumed domestic sewage treatment plant flow (m3/d) | | 2,000 |
| 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. | | |

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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

Used ECETOC TRA 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

| | |
|-------------------------|---|
| 300000001049 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Uses in Coatings - Consumer |
| Use Descriptor | Sector of Use: SU21 Product Categories: PC9a, PC18 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.3c.v1 |
| Scope of process | Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning. |

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| 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 | |
| Concentration of the Substance in Mixture/Article | Covers concentration up to (%): 45 % | |
| Amounts Used | | |
| for each use event, covers amount up to (g): | | 1,000 |
| Frequency and Duration of Use | | |
| Exposure (hours/event): | | 2.2 |
| covers use up to (times/day of use): | | 1 |
| Other Operational Conditions affecting Exposure | | |
| 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 | |
| Coatings and paints, thinners, paint removers Solvent rich, high solid, water borne paint. | covers use up to 1 day/year | |
| | Avoid using at a product concentration greater than 10 % | |
| | For each use event, avoid using a product amount greater than 1,000 g | |
| | For each use, avoid using for more than 2.2 hours/event | |
| | Avoid using in room with closed doors. | |
| | Avoid using when windows closed. | |
| Ink and toners Inks and toners. | Covers concentrations up to 45 % | |

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| | For each use event, covers amount up to 40 g |
| | Covers exposure up to 0.5 hours/event |
| | Covers use up to 1 times/day of use |
| | covers use up to 365 day/year |

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| Section 2.2 | Control of Environmental Exposure |
| Substance is a unique structure. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 528 |
| Fraction of Regional tonnage used locally: | 0.0005 |
| Annual site tonnage (tonnes/year): | 0.264 |
| Maximum daily site tonnage (kg/day): | 0.723 |
| 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 process (initial release prior to RMM): | 0.99 |
| Release fraction to wastewater from process (initial release prior to RMM): | 0.01 |
| Release fraction to soil from process (initial release prior to RMM): | 0.005 |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 87.3 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 87.3 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2,000 |
| 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. The Consexpo model has been used to estimate consumer exposures unless otherwise indicated. | |
| Section 3.2 -Environment | |
| Used ECETOC TRA 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. 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

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| 300000001050 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Use in Cleaning Agents - Consumer |
| Use Descriptor | Sector of Use: SU21 Product Categories: PC35 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.3c.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 | |
| Concentration of the Substance in Mixture/Article | Covers concentration up to (%): 10 % | |
| Amounts Used | | |
| for each use event, covers amount up to (g): | | 16 |
| Frequency and Duration of Use | | |
| Covers use up to (days/year): | | 365 |
| covers use up to (times/day of use): | | 3 |
| Exposure (hours/event): | | 1 |
| Other Operational Conditions affecting Exposure | | |
| Covers use in room size of 15 m3 | | |
| Covers use at ambient temperatures. | | |
| Covers use under typical household ventilation. | | |
| Product Categories | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES | |
| Washing and cleaning products (including solvent based products) Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners). | No specific risk management measure identified beyond those operational conditions stated. | |
| Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass | | |

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| | |
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| cleaners). | |
| Section 2.2 | Control of Environmental Exposure |
| Substance is a unique structure. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 16.8 |
| Fraction of Regional tonnage used locally: | 0.0005 |
| Annual site tonnage (tonnes/year): | 8.4E-03 |
| Maximum daily site tonnage (kg/day): | 2.3E-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 | |
| Release fraction to air from process (initial release prior to RMM): | 0.95 |
| Release fraction to wastewater from process (initial release prior to RMM): | 0.025 |
| Release fraction to soil from process (initial release prior to RMM): | 0.025 |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 87.3 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 87.3 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 104 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2,000 |
| 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 consumer exposures unless otherwise indicated. The Consexpo model has been used to estimate consumer exposures unless otherwise indicated. | |
| Section 3.2 -Environment | |
| Used ECETOC TRA 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. 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

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| 300000001051 | |
| SECTION 1 | EXPOSURE SCENARIO TITLE |
| Title | Use in Agrochemicals uses - Consumer |
| Use Descriptor | Sector of Use: SU21 Product Categories: PC27 Environmental Release Categories: ERC8a, ERC8d |
| Scope of process | Covers the consumer use in agrochemicals in liquid and solid forms. |

| | |
|--|--|
| 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 |
| Concentration of the Substance in Mixture/Article | Covers concentration up to (%): 70 % |
| Amounts Used | |
| for each use event, covers amount up to (g): | 137 |
| Frequency and Duration of Use | |
| covers use up to (times/day of use): | 1 |
| Covers use up to (days/year): | 365 |
| Exposure (hours/event): | 0.1 |
| Other Operational Conditions affecting Exposure | |
| Covers use in room size of 20m3 | |
| Covers use under typical household ventilation. | |
| Covers use at ambient temperatures. | |
| Product Categories | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |
| Plant protection products Sprays. | No specific risk management measure identified beyond those operational conditions stated. |

| | |
|--|--|
| Section 2.2 | Control of Environmental Exposure |
| Substance is a unique structure. | |
| Readily biodegradable. | |
| Amounts Used | |
| Fraction of EU tonnage used in region: | 0.1 |
| Regional use tonnage (tonnes/year): | 66 |
| Fraction of Regional tonnage used locally: | 1 |
| Annual site tonnage (tonnes/year): | 66 |
| Maximum daily site tonnage (kg/day): | 180 |
| Frequency and Duration of Use | |

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| 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 process (initial release prior to RMM): | 1 |
| Release fraction to wastewater from process (initial release prior to RMM): | 0E+00 |
| Release fraction to soil from process (initial release prior to RMM): | 0E+00 |
| Conditions and Measures related to municipal sewage treatment plant | |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 87.3 |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 87.3 |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 110 |
| Assumed domestic sewage treatment plant flow (m3/d) | 2,000 |
| 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 consumer exposures unless otherwise indicated. The Consexpo model has been used to estimate consumer exposures unless otherwise indicated. | |

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| Section 3.2 -Environment | |
| Used ECETOC TRA 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. 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. |
| 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). |