

SAFETY DATA SHEET

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Revision nr : 5.0

Issue date : 28/01/2020

Methoxy propyl acetate

Supersedes : 04/12/2017



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

1.1. Product identifier

| | |
|------------------------|---|
| Product form | : Substance |
| Trade name/designation | : Methoxy propyl acetate |
| Chemical name | : 2-methoxy-1-methylethyl acetate |
| EC Index | : 607-195-00-7 |
| EC-No. | : 203-603-9 |
| CAS-No. | : 108-65-6 |
| REACH registration No | : 01-2119475791-29-XXXX |
| Synonymes | : Propyleneglycol mono methyl ether acetate / Propyleneglycol methyl ether acetate / Propyleneglycol methyl acetate / 2 Methoxy - 1 -methyl ethyl acetate |
| Product group | : Trade product |

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

1.2.1. Relevant identified uses

| | |
|------------------------------|---|
| Main use category | : Industrial uses, Professional use, Consumer use |
| Use of the substance/mixture | : Further information: see exposure scenarios attached to this safety data sheet. |

| Title | Use descriptors |
|---|--|
| Manufacture of substance (ES Ref.: 01) | SU3, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15, ERC1 |
| Solvent (ES Ref.: 02) | SU3, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15, ERC4, ESVOC SPERC 4.21a.v1 |
| Formulation & (re)packing of substances and mixtures (ES Ref.: 03) | SU3, PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, ERC2, CEPE SPERC 2.1b.v1 |
| coatings (ES Ref.: 04) | SU3, PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, ERC4 |
| Use in cleaning agents (ES Ref.: 06) | SU3, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13, ERC4, ESVOC SPERC 4.4a.v1 |
| Uses in coil coatings (ES Ref.: 09) | SU3, PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15, ERC4, ECCA SPERC 5.1 b.v1 |
| Uses in coatings (ES Ref.: 10) | SU3, PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15, ERC4, CEPE SPERC 4.nb.v1 |
| coatings (ES Ref.: 05) | SU22, PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19, ERC8a, ERC8d, ESVOC SPERC 8.3b.v1 |
| Use in cleaning agents (ES Ref.: 07) | SU22, PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, ERC8a, ERC8d, ESVOC SPERC 8.4b.v1 |
| Use in agrochemicals (ES Ref.: 08) | SU22, PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13, ERC8a, ERC8d, ECPA SPERC 8d.2.v1 |
| Uses in coatings (ES Ref.: 11) | SU21, PC9a, PC18, ERC8a, ERC8d, ESVOC SPERC 8.3c.v1 |
| Use in cleaning agents (ES Ref.: 12) | SU21, PC35, ERC8a, ERC8d, ESVOC SPERC 8.4c.v1 |
| Use in agrochemicals (ES Ref.: 13) | SU21, PC27, ERC8a, ERC8d, ECPA SPERC 8d.2.v1 |

Full text of use descriptors: see section 16

| | |
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1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Supplier

SOLVENTIS EUROPE NV
Sint Maartenstraat 1
2000 Antwerpen - BELGIUM
T +32 3 205 16 66
sds@solventis.net

Other

Solventis Ltd
Compton House,
The Guildway,
Old Portsmouth Road,
Guildford
GU3 1LR Surrey - UK
T +44 1483 203224 - F +44 1483 205040
sds@solventis.net

1.4. Emergency telephone number

Emergency number : +32 (0)3 575 55 55

This telephone number is available 24 hours per day, 7 days per week.

| Country | Official advisory body | Address | Emergency number |
|----------------|--|---|--|
| Ireland | National Poisons Information Centre Beaumont Hospital | Beaumont Hospital Beaumont Road 9 Dublin | +353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7) |
| United Kingdom | National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle | 0844 892 0111 (UK only, 24/7, healthcare professionals only) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226

STOT SE 3 H336

Full text of H statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word : Warning

Hazard statements (CLP) : H226 - Flammable liquid and vapour.
H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

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sources. No smoking.
P233 - Keep container tightly closed.
P261 - Avoid breathing dust, fume, gas, mist, vapours, spray.
P271 - Use only outdoors or in a well-ventilated area.
P312 - Call a POISON CENTER, a doctor if you feel unwell.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents and container to an approved waste disposal plant.

Listed in Annex VI

: EC Index-No. : 607-195-00-7

2.3. Other hazards

Other hazards

: PBT/vPvB data. This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance name : Methoxy propyl acetate
CAS-No. : 108-65-6
EC-No. : 203-603-9
EC Index : 607-195-00-7

| Substance name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------|---|--------|---|
| 2-methoxy-1-methylethyl acetate | (CAS-No.) 108-65-6 (EC-No.) 203-603-9 (EC Index) 607-195-00-7 | > 99,5 | Flam. Liq. 3, H226 STOT SE 3, H336 |
| 2-methoxypropyl acetate | (CAS-No.) 70657-70-4 (EC-No.) 274-724-2 (EC Index) 607-251-00-0 | < 0,3 | Flam. Liq. 3, H226 Repr. 1B, H360D STOT SE 3, H335 |

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice : First aider: Pay attention to self-protection!. See also section 8 . If unconscious place in recovery position and seek medical advice. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. Never give anything by mouth to an unconscious person.

Inhalation : Keep at rest. Provide fresh air. Give oxygen or artificial respiration if necessary. Get medical advice/attention if you feel unwell.

Skin contact : Wash with plenty of water/. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. In case of doubt or persistent symptoms, consult always a physician.

Eyes contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Get medical advice/attention.

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Ingestion : Do NOT induce vomiting. Rinse mouth, ingest activated charcoal. Get medical advice/attention. Keep at rest.

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

Inhalation : May cause drowsiness or dizziness. May cause respiratory irritation. Symptoms : Cough. Headache. Nausea. Sore throat.

Skin contact : Repeated exposure may cause skin dryness or cracking.

Eyes contact : Contact with eyes may cause irritation. Symptoms : erythema (redness). Pain.

Ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards : Evacuate personnel to a safe area. Stay upwind/keep distance from source. Vapours are heavier than air and may spread along floors.

Explosion hazard : Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Vapours may form explosive mixture with air.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂).

5.3. Advice for firefighters

Firefighting instructions : Special protective equipment for firefighters. In case of fire: Wear self-contained breathing apparatus. Cool containers / tanks with water spray. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8 .

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Dam up the liquid spill.

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Methods for cleaning up

: Clean-up methods - large spillage: Recover large spills by pumping (use an explosion proof or hand pump). Dispose of contaminated materials in accordance with current regulations. Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. Clean-up methods - small spillage: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Keep in suitable, closed containers for disposal. Dispose of waste product or used containers according to local regulations.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Provide adequate ventilation. Concerning personal protective equipment to use, see section 8 . Do not smoke. Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. After use replace the closing cap immediately. Do not burn, or use a cutting torch on the empty drum. Do not pierce or burn, even after use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Use only explosion-proof equipment. Ensure equipment is adequately earthed. Take any precaution to avoid mixing with combustibles... See also section 10. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).

Hygiene measures

: Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. Keep away from food, drink and animal feedingstuffs. Take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Storage of flammable liquids. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Ensure equipment is adequately earthed.

Incompatible substances or mixtures

: Oxidizing agent. Strong acids.

Heat and ignition sources

: Keep away from open flames, hot surfaces and sources of ignition. Keep out of direct sunlight. Do not smoke.

Special rules on packaging

: Keep in properly labelled containers.

Packaging materials

: Stainless steel. Carbon steel.

7.3. Specific end use(s)

see attached exposure scenario.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 2-methoxy-1-methylethyl acetate (108-65-6) | | |
|--|---|--|
| EU | IOELV TWA (mg/m ³) | 275 mg/m ³ |
| EU | IOELV TWA (ppm) | 50 ppm |
| EU | IOELV STEL (mg/m ³) | 550 mg/m ³ |
| EU | IOELV STEL (ppm) | 100 ppm |
| EU | Notes | Possibility of significant uptake through the skin |
| Austria | MAK (mg/m ³) | 275 mg/m ³ |
| Austria | MAK (ppm) | 50 ppm |
| Austria | MAK Short time value (mg/m ³) | 550 mg/m ³ |

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| 2-methoxy-1-methylethyl acetate (108-65-6) | | |
|---|--|--|
| Austria | MAK Short time value (ppm) | 100 ppm |
| Belgium | Limit value (mg/m ³) | 275 mg/m ³ |
| Belgium | Limit value (ppm) | 50 ppm |
| Belgium | Short time value (mg/m ³) | 550 mg/m ³ |
| Belgium | Short time value | 100 ppm |
| Bulgaria | OEL TWA (mg/m ³) | 275 mg/m ³ |
| Bulgaria | OEL TWA (ppm) | 50 ppm |
| Bulgaria | OEL STEL (mg/m ³) | 550 mg/m ³ |
| Bulgaria | OEL STEL (ppm) | 100 ppm |
| Croatia | GVI (granična vrijednost izloženosti) (mg/m ³) | 275 mg/m ³ |
| Croatia | GVI (granična vrijednost izloženosti) (ppm) | 50 ppm |
| Croatia | KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³) | 550 mg/m ³ |
| Croatia | KGVI (kratkotrajna granična vrijednost izloženosti) (ppm) | 100 ppm |
| Cyprus | OEL TWA (mg/m ³) | 275 mg/m ³ |
| Cyprus | OEL TWA (ppm) | 50 ppm |
| Cyprus | OEL STEL (mg/m ³) | 550 mg/m ³ |
| Cyprus | OEL STEL (ppm) | 100 ppm |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 270 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 275 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 50 ppm |
| Estonia | OEL TWA (mg/m ³) | 275 mg/m ³ |
| Estonia | OEL TWA (ppm) | 50 ppm |
| Estonia | OEL STEL (mg/m ³) | 550 mg/m ³ |
| Estonia | OEL STEL (ppm) | 100 ppm |
| Finland | HTP-arvo (8h) (mg/m ³) | 270 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 50 ppm |
| Finland | HTP-arvo (15 min) | 550 mg/m ³ |
| Finland | HTP-arvo (15 min) (ppm) | 100 ppm |
| France | VME (mg/m ³) | 275 mg/m ³ (restrictive limit) |
| France | VME (ppm) | 50 ppm (restrictive limit) |
| France | VLE (mg/m ³) | 550 mg/m ³ (restrictive limit) |
| France | VLE (ppm) | 100 ppm (restrictive limit) |
| Germany | Occupational exposure limit value (mg/m ³) | 270 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Germany | Occupational exposure limit value (ppm) | 50 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Gibraltar | 8h mg/m ³ | 275 mg/m ³ |
| Gibraltar | 8h ppm | 50 ppm |

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| 2-methoxy-1-methylethyl acetate (108-65-6) | | |
|---|---|--|
| Gibraltar | Short-term mg/m ³ | 550 mg/m ³ |
| Gibraltar | Short-term ppm | 100 ppm |
| Greece | OEL TWA (mg/m ³) | 275 mg/m ³ |
| Greece | OEL TWA (ppm) | 50 ppm |
| Greece | OEL STEL (mg/m ³) | 550 mg/m ³ |
| Greece | OEL STEL (ppm) | 100 ppm |
| Hungary | AK-érték | 275 mg/m ³ |
| Hungary | CK-érték | 550 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 275 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 50 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 550 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 100 ppm |
| Italy | OEL TWA (mg/m ³) | 275 mg/m ³ |
| Italy | OEL TWA (ppm) | 50 ppm |
| Italy | OEL STEL (mg/m ³) | 550 mg/m ³ |
| Italy | OEL STEL (ppm) | 100 ppm |
| Latvia | OEL TWA (mg/m ³) | 275 mg/m ³ |
| Latvia | OEL TWA (ppm) | 50 ppm |
| Lithuania | IPRV (mg/m ³) | 250 mg/m ³ |
| Lithuania | IPRV (ppm) | 50 ppm |
| Lithuania | TPRV (mg/m ³) | 400 mg/m ³ |
| Lithuania | TPRV (ppm) | 75 ppm |
| Luxembourg | OEL TWA (mg/m ³) | 275 mg/m ³ |
| Luxembourg | OEL TWA (ppm) | 50 ppm |
| Luxembourg | OEL STEL (mg/m ³) | 550 mg/m ³ |
| Luxembourg | OEL STEL (ppm) | 100 ppm |
| Malta | OEL TWA (mg/m ³) | 275 mg/m ³ |
| Malta | OEL TWA (ppm) | 50 ppm |
| Malta | OEL STEL (mg/m ³) | 550 mg/m ³ |
| Malta | OEL STEL (ppm) | 100 ppm |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 550 mg/m ³ |
| Poland | NDS (mg/m ³) | 260 mg/m ³ |
| Poland | NDSch (mg/m ³) | 520 mg/m ³ |
| Portugal | OEL TWA (mg/m ³) | 275 mg/m ³ (indicative limit value) |
| Portugal | OEL TWA (ppm) | 50 ppm (indicative limit value) |
| Portugal | OEL STEL (mg/m ³) | 550 mg/m ³ (indicative limit value) |
| Portugal | OEL STEL (ppm) | 100 ppm (indicative limit value) |
| Romania | OEL TWA (mg/m ³) | 275 mg/m ³ |
| Romania | OEL TWA (ppm) | 50 ppm |

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| 2-methoxy-1-methylethyl acetate (108-65-6) | | |
|---|--|--|
| Romania | OEL STEL (mg/m ³) | 550 mg/m ³ |
| Romania | OEL STEL (ppm) | 100 ppm |
| Slovakia | NPHV (priemerná) (mg/m ³) | 275 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 50 ppm |
| Slovakia | NPHV (Hraničná) (mg/m ³) | 550 mg/m ³ |
| Slovenia | OEL TWA (mg/m ³) | 275 mg/m ³ |
| Slovenia | OEL TWA (ppm) | 50 ppm |
| Slovenia | OEL STEL (mg/m ³) | 550 mg/m ³ |
| Slovenia | OEL STEL (ppm) | 100 ppm |
| Spain | VLA-ED (mg/m ³) | 275 mg/m ³ (indicative limit value) |
| Spain | VLA-ED (ppm) | 50 ppm (indicative limit value) |
| Spain | VLA-EC (mg/m ³) | 550 mg/m ³ |
| Spain | VLA-EC (ppm) | 100 ppm |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 275 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 50 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 550 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 100 ppm |
| United Kingdom | WEL TWA (mg/m ³) | 274 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 50 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 548 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 100 ppm |
| Norway | Grenseverdier (AN) (mg/m ³) | 270 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 50 ppm |
| Norway | Grenseverdier (Korttidsverdi) (mg/m ³) | 337,5 mg/m ³ (value calculated) |
| Norway | Grenseverdier (Korttidsverdi) (ppm) | 75 ppm (value calculated) |
| Switzerland | MAK (mg/m ³) | 275 mg/m ³ |
| Switzerland | MAK (ppm) | 50 ppm |
| Switzerland | KZGW (mg/m ³) | 275 mg/m ³ |
| Switzerland | KZGW (ppm) | 50 ppm |
| Australia | TWA (mg/m ³) | 274 mg/m ³ |
| Australia | TWA (ppm) | 50 ppm |
| Australia | STEL (mg/m ³) | 548 mg/m ³ |
| Australia | STEL (ppm) | 100 ppm |
| 2-methoxypropyl acetate (70657-70-4) | | |
| Austria | MAK (mg/m ³) | 110 mg/m ³ |
| Austria | MAK (ppm) | 20 ppm |
| Austria | MAK Short time value (mg/m ³) | 440 mg/m ³ |
| Austria | MAK Short time value (ppm) | 80 ppm |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 270 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 110 mg/m ³ |

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| 2-methoxypropyl acetate (70657-70-4) | | |
|---|--|---|
| Denmark | Grænseværdie (langvarig) (ppm) | 20 ppm |
| Germany | Occupational exposure limit value (mg/m ³) | 28 mg/m ³ (the risk of damage to the embryo or fetus cannot be excluded even when AGW and BGW values are observed) |
| Germany | Occupational exposure limit value (ppm) | 5 ppm (the risk of damage to the embryo or fetus cannot be excluded even when AGW and BGW values are observed) |
| Poland | NDS (mg/m ³) | 100 mg/m ³ |
| Poland | NDSCh (mg/m ³) | 200 mg/m ³ |
| Slovakia | NPHV (priemerná) (mg/m ³) | 110 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 20 ppm |
| Slovakia | NPHV (Hraničná) (mg/m ³) | 220 mg/m ³ |
| Slovenia | OEL TWA (mg/m ³) | 28 mg/m ³ |
| Slovenia | OEL TWA (ppm) | 5 ppm |
| Slovenia | OEL STEL (mg/m ³) | 224 mg/m ³ |
| Slovenia | OEL STEL (ppm) | 40 ppm |
| Spain | VLA-ED (mg/m ³) | 28 mg/m ³ (manufacturing, commercialization and use restrictions according to REACH) |
| Spain | VLA-ED (ppm) | 5 ppm (manufacturing, commercialization and use restrictions according to REACH) |
| Spain | VLA-EC (mg/m ³) | 220 mg/m ³ |
| Spain | VLA-EC (ppm) | 40 ppm |
| Norway | Grenseverdier (AN) (mg/m ³) | 110 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 20 ppm |
| Norway | Grenseverdier (Korttidsverdi) (mg/m ³) | 137,5 mg/m ³ (value calculated) |
| Norway | Grenseverdier (Korttidsverdi) (ppm) | 30 ppm (value calculated) |
| Switzerland | MAK (mg/m ³) | 28 mg/m ³ |
| Switzerland | MAK (ppm) | 5 ppm |
| Switzerland | KZGW (mg/m ³) | 224 mg/m ³ |
| Switzerland | KZGW (ppm) | 40 ppm |

| Methoxy propyl acetate (108-65-6) | |
|--|----------------------------|
| DNEL/DMEL (workers) | |
| Long-term - systemic effects, dermal | 153,5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 275 mg/m ³ |
| DNEL/DMEL (general population) | |
| Long-term - systemic effects, oral | 1,67 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 33 mg/m ³ |
| Long-term - systemic effects, dermal | 54,8 mg/kg bodyweight/day |
| PNEC (water) | |
| PNEC aqua (freshwater) | 0,635 mg/l |
| PNEC aqua (marine water) | 0,0635 mg/l |

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|--------------------------------------|-----------------|
| PNEC aqua (intermittent, freshwater) | 6,35 mg/l |
| PNEC (sediment) | |
| PNEC sediment (freshwater) | 3,29 mg/kg dwt |
| PNEC sediment (marine water) | 0,329 mg/kg dwt |
| PNEC (soil) | |
| PNEC soil | 0,29 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 100 mg/l |

8.2. Exposure controls

| | |
|---------------------------------|---|
| Engineering measure(s) | : Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Organisational measures to prevent /limit releases, dispersion and exposure. See also section 7. |
| Personal protective equipment | : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Hand protection | : Wear chemically resistant gloves (tested to EN374) . Wear suitable gloves. : Butyl caoutchouc (butyl rubber). Polyethylene. ethylene vinyl alcohol laminate (EVAL). Viton ®. NR (natural rubber, natural latex). PVC (Polyvinyl chloride). NBR (Nitrile rubber). Repeated or prolonged exposure: : Class >= 5. Breakthrough time : : > 240 min. Short-term exposure : Class >= 1. Breakthrough time : : >= 10 min. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves. |
| Eye protection | : Safety glasses (EN 166) |
| Body protection | : Wear suitable protective clothing |
| Respiratory protection | : In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: A (EN 141). |
| Thermal hazard protection | : Not required for normal conditions of use. Use dedicated equipment. |
| Environmental exposure controls | : Avoid release to the environment. Comply with applicable Community environmental protection legislation. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------|--|
| Physical state | : Liquid |
| Appearance | : liquid. |
| Molecular weight | : 132,2 g/mol |
| Colour | : Colourless. |
| Odour | : ether-like. |
| Odour threshold | : No data available No data available |
| pH | : Not applicable |

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| | |
|--|---|
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting / freezing point | : No data available |
| Freezing point | : -66 °C |
| Initial boiling point and boiling range | : 145,8 °C |
| Flash point | : 45,5 °C ASTM D3828 |
| Auto-ignition temperature | : 333 °C |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable, liquid |
| Vapour pressure | : 355 Pa (20°C) |
| Vapour density | : 4,6 |
| Relative density | : No data available |
| Density | : 0,967 g/cm ³ |
| Solubility | : No data available. Water: 19,8 % |
| Partition coefficient n-octanol/water | : 1,2 |
| Kinematic viscosity | : 1,23 mm ² /s (20°C) |
| Dynamic viscosity | : 1,1 mPa·s (25°C) |
| Explosive properties | : Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule. |
| Oxidising properties | : Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties. |
| Explosive limits | : LEL: 1.5% - UEL: 7% |

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour. Reference to other sections: 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. See also section 7. Handling and storage.

10.5. Incompatible materials

oxidising substances. Strong acids.

10.6. Hazardous decomposition products

Carbon oxides.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

2-methoxy-1-methylethyl acetate (108-65-6)

LD50/oral/rat 8532 mg/kg

LD50/dermal/rabbit > 5 g/kg

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not applicableSerious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not applicable

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Methoxy propyl acetate (108-65-6)

Kinematic viscosity 1,23 mm²/s (20°C)Other information : Symptoms related to the physical, chemical and toxicological characteristics.
Reference to other sections: 4.2.

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : Ecological injuries are not known or expected under normal use.

2-methoxy-1-methylethyl acetate (108-65-6)

LC50 fish 1 161 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

EC50 Daphnia 1 > 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

Methoxy propyl acetate (108-65-6)

Persistence and degradability Readily biodegradable.

12.3. Bioaccumulative potential

Methoxy propyl acetate (108-65-6)

Bioconcentration factor (BCF) < 100

Partition coefficient n-octanol/water 1,2

2-methoxy-1-methylethyl acetate (108-65-6)

Partition coefficient n-octanol/water 0,43

12.4. Mobility in soil

Methoxy propyl acetate (108-65-6)

Ecology - soil Expected to be highly mobile in soil.

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12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Handle with care. Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility. Dispose of contaminated materials in accordance with current regulations.

Additional information

: Delivery to an approved waste disposal company. Do not burn, or use a cutting torch on the empty drum. Dispose of contaminated materials in accordance with current regulations.

Further ecological information






: Do not allow to enter into surface water or drains.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC)

: Classified as hazardous waste according to European Union regulations. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|--|---|---|--|---|
| 14.1. UN number | | | | |
| 3272 | 3272 | 3272 | 3272 | 3272 |
| 14.2. UN proper shipping name | | | | |
| ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate ()) | ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate ()) | Esters, n.o.s. (2-methoxy-1-methylethyl acetate ()) | ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate ()) | ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate ()) |
| Transport document description | | | | |
| UN 3272 ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate ()), 3, III, (D/E) | UN 3272 ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate ()), 3, III | UN 3272 Esters, n.o.s. (2-methoxy-1-methylethyl acetate ()), 3, III | UN 3272 ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate ()), 3, III | UN 3272 ESTERS, N.O.S. (2-methoxy-1-methylethyl acetate ()), 3, III |
| 14.3. Transport hazard class(es) | | | | |
| 3 | 3 | 3 | 3 | 3 |
|  |  |  |  |  |
| 14.4. Packing group | | | | |
| III | III | III | III | III |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available | | | | |

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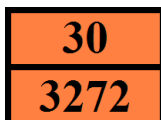


14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

Classification code (ADR) : F1
Special provisions : 274, 601
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1, TP29
Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Operation (ADR) : S2
Hazard identification number (Kemler No.) : 30
Orange plates :



Tunnel restriction code : D/E

- Transport by sea

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D
Stowage category (IMDG) : A
MFAG-No : 127;128

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net quantity (IATA) : 10L

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PCA packing instructions (IATA) : 355
PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L
Special provisions (IATA) : A3
ERG code (IATA) : 3L

- Inland waterway transport

Classification code (ADN) : F1
Special provisions (ADN) : 274, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : F1
Special provisions (RID) : 274, 601
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F

Methoxy propyl acetate ; 2-methoxypropyl acetate ; 2-methoxy-1-methylethyl acetate

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| | |
|--|--|
| 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | Methoxy propyl acetate ; 2-methoxypropyl acetate ; 2-methoxy-1-methylethyl acetate |
| 30. Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively. | 2-methoxypropyl acetate |
| 40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. | Methoxy propyl acetate ; 2-methoxypropyl acetate ; 2-methoxy-1-methylethyl acetate |

Methoxy propyl acetate is not on the REACH Candidate List

Methoxy propyl acetate is not on the REACH Annex XIV List

15.1.2. National regulations

France

| No ICPE | Installations classées Désignation de la rubrique | Code Régime | Rayon |
|-----------|--|-------------|-------|
| 4330.text | Liquides inflammables de catégorie 1, liquides inflammables maintenus à une température supérieure à leur point d'ébullition, autres liquides de point éclair inférieur ou égal à 60° C maintenus à une température supérieure à leur température d'ébullition ou dans des conditions particulières de traitement, telles qu'une pression ou une température élevée (1). | | |
| 4330.1 | La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant : 1. Supérieure ou égale à 10 t (1) Conformément à la section 2.6.4.5 de l'annexe I du règlement (CE) n° 1272/2008, il n'est pas nécessaire de classer les liquides ayant un point d'éclair supérieur à 35° C dans la catégorie 3 si l'épreuve de combustion entretenue du point L 2, partie III, section 32, du Manuel d'épreuves et de critères des Nations unies a donné des résultats négatifs. Toutefois, cette remarque n'est pas valable en cas de température ou de pression élevée, et ces liquides doivent alors être classés dans cette catégorie. Quantité seuil bas au sens de l'article R. 511-10 : 10 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 t. | A | 2 |
| 4330.2 | La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant : 2. Supérieure ou égale à 1 t mais inférieure à 10 t (1) Conformément à la section 2.6.4.5 de l'annexe I du règlement (CE) n° 1272/2008, il n'est pas nécessaire de classer les liquides ayant un point d'éclair supérieur à 35° C dans la catégorie 3 si l'épreuve de combustion entretenue du point L 2, partie III, section 32, du Manuel d'épreuves et de critères des Nations unies a donné des résultats négatifs. Toutefois, cette remarque n'est pas valable en cas de température ou de pression élevée, et ces liquides doivent alors être classés dans cette catégorie. Quantité seuil bas au sens de l'article R. 511-10 : 10 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 t. | DC | |
| 4331.text | Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant : | | |

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| | | | |
|--------|---|----|---|
| 4331.1 | 1. Supérieure ou égale à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t. | A | 2 |
| 4331.2 | 2. Supérieure ou égale à 100 t mais inférieure à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t. | E | |
| 4331.3 | 3. Supérieure ou égale à 50 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t. | DC | |

Germany

| | |
|--|--|
| Reference to AwSV | : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV; ID No. 5033) |
| Risk classification according to VbF | : A II - Liquids with a flashpoint between 21°C and 55°C |
| German storage class (LGK) | : LGK 3 - Flammable liquids |
| 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV | : Listed in the 12. BImSchV (Annex I) under: 1.2.5.3 Quantity threshold for operational area under § 1 para. 1 - Sentence 1: 5000000 kg - Sentence 2: 50000000 kg |
| TA Luft | : Organic Substances |

Netherlands

| | |
|---|--|
| Waterbezwaarlijkheid | : B (5) - Weinig schadelijk voor in het water levende organismen |
| SZW-lijst van kankerverwekkende stoffen | : The substance is not listed |
| SZW-lijst van mutagene stoffen | : The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding | : The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | : The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling | : The substance is not listed |

Denmark

| | |
|-----------------------------------|--|
| Class for fire hazard | : Class II-1 |
| Store unit | : 5 liter |
| Classification remarks | : R10 <H226;H336>; Emergency management guidelines for the storage of flammable liquids must be followed |
| Recommendations Danish Regulation | : Young people below the age of 18 years are not allowed to use the product. |

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

| | | | |
|-----|---|----------|--|
| 2.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified | |
| 2.2 | Labelling according to | Modified | |

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| | | | |
|------|---|----------|--|
| | Regulation (EC) No. 1272/2008 [CLP] | | |
| 3.1 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Modified | |
| 4.2 | Inhalation | Modified | |
| 11.1 | Toxicological information | Modified | |
| 15.1 | National regulations | Modified | |
| 16 | Other information | Modified | |

Abbreviations and acronyms:

| | |
|--|---|
| | ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals |
| | STEL = Short term exposure limit |
| | TWA = time weighted average |
| | DNEL = Derived No Effect Level |
| | DMEL = Derived Minimal Effect level |
| | PNEC = Predicted No Effect Concentration |
| | LD50 = Median lethal dose |
| | LC50 = Median lethal concentration |
| | ATE = Acute Toxicity Estimate |
| | EC50 = Median Effective Concentration |
| | PBT = persistent, bioaccumulating and toxic (PBT). |
| | vPvB = very persistent and very bioaccumulating |
| | EWC = European waste catalogue |

Sources of key data used to compile the datasheet : European Chemicals Bureau Supplier sds.

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Full text of H- and EUH-statements:

| | |
|--------------|--|
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Repr. 1B | Reproductive toxicity, Category 1B |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H226 | Flammable liquid and vapour. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H360D | May damage the unborn child. |

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the

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| | |



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**Annex to the safety data sheet**

| Annex : Identified uses | | | | | | |
|--|----------------------|-------------------------|---|-------------------------|-------------------------------|----------------------------|
| Title | Sector of use | Product category | Process category | Article category | Environmenta l release | SPERC |
| Manufacture of substance | SU3 | | PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15 | | ERC1 | |
| Solvent | SU3 | | PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15 | | ERC4 | ESVOC SPERC 4.21a.v1 |
| Formulation & (re)packing of substances and mixtures | SU3 | | PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15 | | ERC2 | CEPE SPERC 2.1b.v1 |
| coatings | SU3 | | PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15 | | ERC4 | |
| coatings | SU22 | | PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, | | ERC8a, ERC8d | ESVOC SPERC 8.3b.v1 |

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| | | | | | | |
|------------------------|------|------------|--|--|-----------------|---------------------------|
| | | | PROC13, PROC15, PROC19 | | | |
| Use in cleaning agents | SU3 | | PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13 | | ERC4 | ESVOC SPERC 4.4a.v1 |
| Use in cleaning agents | SU22 | | PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13 | | ERC8a, ERC8d | ESVOC SPERC 8.4b.v1 |
| Use in agrochemicals | SU22 | | PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13 | | ERC8a, ERC8d | ECPA SPERC 8d.2.v1 |
| Uses in coil coatings | SU3 | | PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15 | | ERC4 | ECCA SPERC 5.1 b.v1 |
| Uses in coatings | SU3 | | PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15 | | ERC4 | CEPE SPERC 4.nb.v1 |
| Uses in coatings | SU21 | PC9a, PC18 | | | ERC8a, | ESVOC SPERC |

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| | | | | | | |
|------------------------|------|------|--|--|-----------------|---------------------------|
| | | | | | ERC8d | 8.3c.v1 |
| Use in cleaning agents | SU21 | PC35 | | | ERC8a, ERC8d | ESVOC SPERC 8.4c.v1 |
| Use in agrochemicals | SU21 | PC27 | | | ERC8a, ERC8d | ECPA SPERC 8d.2.v1 |

1. Exposure scenario 01

Manufacture of substance

ES Ref.: 01
ES Type: Worker

| | |
|-------------------------------------|--|
| Use descriptors | PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15 SU3 ERC1 |
| Processes, tasks activities covered | Manufacture of substance or use as process chemical or extracting 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. Industrial use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15)

| | |
|--------|--|
| PROC1 | Use in closed process, no likelihood of exposure |
| PROC2 | Use in closed, continuous process with occasional controlled exposure |
| PROC3 | Use in closed batch process (synthesis or formulation) |
| PROC4 | Use in batch and other process (synthesis) where opportunity for exposure arises |
| PROC8a | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities |
| PROC8b | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities |
| PROC15 | Use as laboratory reagent |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | |
|---|---|
| Amount used | not relevant |
| Frequency and duration of use | Covers daily exposures up to 8 hours (unless stated differently). |
| Human factors not influenced by risk management | None known. |
| Other given operational conditions affecting workers exposure | Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational |

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hygiene is implemented.

Risk management measures

Other risk management measures:

| | |
|--|--|
| General exposures (closed systems), Continuous process | No other specific measures identified. |
| General exposures (closed systems), Continuous process, with sample collection | No other specific measures identified. |
| Use in contained batch processes | No other specific measures identified. |
| General exposures (open systems) | No other specific measures identified. |
| Process sampling, Closed systems | No other specific measures identified. |
| Equipment cleaning and maintenance | No other specific measures identified. |
| Bulk transfers, Dedicated facility | Clear transfer lines prior to de-coupling. |
| Bulk product storage, Closed systems | No other specific measures identified. |
| Laboratory activities | No other specific measures identified. |

2.2 Contributing scenario controlling environmental exposure (ERC1)

| | |
|-------------------|---------------------------|
| ERC1 | Manufacture of substances |
| Assessment method | EUSES v2.1 |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | |
|---|--|
| Amount used | Maximum daily site tonnage (kg/day) 288000 |
| Frequency and duration of use | Emission days (days/year): 300 |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 19709 |
| Other given operational conditions affecting environmental exposure | Not applicable |

Risk management measures

| | |
|--|--|
| Technical conditions and measures at process level to prevent release | Not applicable |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | Not applicable |
| Organizational measures to prevent/limit release from the site | Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. |
| Conditions and measures related to sewage treatment plant | Not applicable |
| Conditions and measures related to external treatment of waste for disposal | Not applicable |
| Conditions and measures related to external recovery of waste | Aerobic biological treatment |

3. Exposure estimation and reference to its source

| | |
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3.1. Health

| | |
|--|---|
| Information for contributing exposure scenario | |
| 2.1 | The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |

3.2. Environment

| | |
|--|------------|
| Information for contributing exposure scenario | |
| 2.2 | EUSES v2.1 |

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

4.1. Health

| | |
|-------------------|--|
| Guidance - Health | Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted, Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |
|-------------------|--|

4.2. Environment

| | |
|------------------------|--|
| Guidance - Environment | Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, 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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1. Exposure scenario 02

Solvent

ES Ref.: 02
ES Type: Worker

| | |
|-------------------------------------|---|
| Use descriptors | PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15 SU3 ERC4 ESVOC SPERC 4.21a.v1 |
| Processes, tasks activities covered | Manufacture of substance or use as process chemical or extracting 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. Industrial use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15)

| | |
|--------|--|
| PROC1 | Use in closed process, no likelihood of exposure |
| PROC2 | Use in closed, continuous process with occasional controlled exposure |
| PROC3 | Use in closed batch process (synthesis or formulation) |
| PROC4 | Use in batch and other process (synthesis) where opportunity for exposure arises |
| PROC8a | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities |
| PROC8b | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities |
| PROC15 | Use as laboratory reagent |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | |
|---|---|
| Amount used | not relevant |
| Frequency and duration of use | Covers daily exposures up to 8 hours (unless stated differently). |
| Human factors not influenced by risk management | None known. |
| Other given operational conditions affecting workers exposure | Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented. |

Risk management measures

Other risk management measures:

| | |
|--|--|
| General exposures (closed systems), Continuous process | No other specific measures identified. |
| General exposures (closed systems), Continuous process, with sample collection | No other specific measures identified. |
| Use in contained batch processes | No other specific measures identified. |

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| | | |
|--------------------------------------|--|--|
| General exposures (open systems) | No other specific measures identified. | |
| Process sampling, Closed systems | No other specific measures identified. | |
| Equipment cleaning and maintenance | No other specific measures identified. | |
| Bulk transfers, Dedicated facility | Clear transfer lines prior to de-coupling. | |
| Bulk product storage, Closed systems | No other specific measures identified. | |
| Laboratory activities | No other specific measures identified. | |

2.2 Contributing scenario controlling environmental exposure (ERC4)

| | |
|-------------------|--|
| ERC4 | Industrial use of processing aids in processes and products, not becoming part of articles |
| Assessment method | EUSES v2.1 |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|--|--|
| Amount used | Maximum daily site tonnage (kg/day) 2200 | |
| Frequency and duration of use | Emission days (days/year): 300 | |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 10 | |
| | Local marine water dilution factor: 100 | |
| Other given operational conditions affecting environmental exposure | Not applicable | |

Risk management measures

| | | |
|--|--|--|
| Technical conditions and measures at process level to prevent release | Not applicable | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | Not applicable | |
| Organizational measures to prevent/limit release from the site | Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. | |
| Conditions and measures related to 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 | |
| Conditions and measures related to external treatment of waste for disposal | Not applicable | |
| Conditions and measures related to external recovery of waste | Aerobic biological treatment | |

3. Exposure estimation and reference to its source

3.1. Health

| | |
|--|---|
| Information for contributing exposure scenario | |
| 2.1 | The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |

3.2. Environment

| | |
|--|--|
| Information for contributing exposure scenario | |
|--|--|

| | |
|-------------------------------|-------------------------|
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| | |
|-----|------------|
| 2.2 | EUSES v2.1 |
|-----|------------|

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

4.1. Health

| | |
|-------------------|--|
| Guidance - Health | Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted, Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |
|-------------------|--|

4.2. Environment

| | |
|------------------------|--|
| Guidance - Environment | Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, 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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1. Exposure scenario 03

Formulation & (re)packing of substances and mixtures

ES Ref.: 03
ES Type: Worker

| | |
|-------------------------------------|---|
| Use descriptors | PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15 SU3 ERC2 CEPE SPERC 2.1b.v1 |
| Processes, tasks activities covered | 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. Industrial use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure (PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15)

| | |
|--------|--|
| PROC1 | Use in closed process, no likelihood of exposure |
| PROC2 | Use in closed, continuous process with occasional controlled exposure |
| PROC3 | Use in closed batch process (synthesis or formulation) |
| PROC4 | Use in batch and other process (synthesis) where opportunity for exposure arises |
| PROC5 | Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) |
| PROC8a | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities |
| PROC8b | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities |
| PROC9 | Transfer of substance or mixture into small containers (dedicated filling line, including weighing) |
| PROC14 | Production of preparations or articles by tableting, compression, extrusion, pelletisation |
| PROC15 | Use as laboratory reagent |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | |
|---|---|
| Amount used | not relevant |
| Frequency and duration of use | Covers daily exposures up to 8 hours (unless stated differently). |
| Human factors not influenced by risk management | None known. |
| Other given operational conditions affecting workers exposure | Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented. |

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Risk management measures

Other risk management measures:

| | | |
|--|---|--|
| General exposures (closed systems), Continuous process, no sampling | No other specific measures identified. | |
| General exposures (closed systems), Continuous process, with sample collection | No other specific measures identified. | |
| General exposures, Use in contained batch processes, with sample collection | No other specific measures identified. | |
| General exposures (open systems) | No other specific measures identified. | |
| Batch processes at elevated temperatures | No other specific measures identified. | |
| Process sampling, Closed systems | No other specific measures identified. | |
| Bulk transfers, Dedicated facility, Closed systems | No other specific measures identified. | |
| Bulk product storage, Closed systems | No other specific measures identified. | |
| Bulk transfers, Dedicated facility, Open systems | No other specific measures identified. | |
| Mixing operations (open systems) | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). | |
| Transfer from/pouring from containers, Manual | No other specific measures identified. | |
| Equipment cleaning and maintenance | No other specific measures identified. | |
| Drum/batch transfers, Dedicated facility | No other specific measures identified. | |
| Production of preparations or articles by tableting, compression, extrusion, pelletisation | No other specific measures identified. | |
| Drum and small package filling, Dedicated facility | No other specific measures identified. | |
| Laboratory activities | No other specific measures identified. | |

2.2 Contributing scenario controlling environmental exposure (ERC2)

| | |
|-------------------|-----------------------------|
| ERC2 | Formulation of preparations |
| Assessment method | EUSES v2.1 |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|--|--|
| Amount used | Maximum daily site tonnage (kg/day) 2100 | |
| Frequency and duration of use | Emission days (days/year): 225 | |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 10 | |
| | Local marine water dilution factor: 100 | |
| Other given operational conditions affecting environmental exposure | Not applicable | |

Risk management measures

| | | |
|--|--|--|
| Technical conditions and measures at process level to prevent release | Not applicable | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | Use appropriate containment to avoid environmental contamination. | |
| Organizational measures to prevent/limit release from the site | Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. | |

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| | | |
|---|--|--|
| Conditions and measures related to 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 | |
| Conditions and measures related to external treatment of waste for disposal | Dispose of waste product or used containers according to local regulations | |
| Conditions and measures related to external recovery of waste | Incinerate, absorb, or adsorb vapours stripped from solution whenever necessary | |
| | store finished products in closed containers (e.g, bulk tanks, drums, cans) | |

3. Exposure estimation and reference to its source

3.1. Health

| | |
|--|---|
| Information for contributing exposure scenario | |
| 2.1 | The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |

3.2. Environment

| | |
|--|------------|
| Information for contributing exposure scenario | |
| 2.2 | EUSES v2.1 |

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

4.1. Health

| | |
|-------------------|--|
| Guidance - Health | Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted, Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |
|-------------------|--|

4.2. Environment

| | |
|------------------------|--|
| Guidance - Environment | Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, 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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1. Exposure scenario 04

Uses in coatings

| |
|--------------------------------|
| ES Ref.: 04 ES Type: Worker |
|--------------------------------|

| | |
|-------------------------------------|---|
| Use descriptors | PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15 SU3 ERC4 |
| Processes, tasks activities covered | 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. Industrial use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure (PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15)

| | |
|--------|--|
| PROC1 | Use in closed process, no likelihood of exposure |
| PROC2 | Use in closed, continuous process with occasional controlled exposure |
| PROC3 | Use in closed batch process (synthesis or formulation) |
| PROC4 | Use in batch and other process (synthesis) where opportunity for exposure arises |
| PROC5 | Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) |
| PROC7 | Industrial spraying |
| PROC8a | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities |
| PROC8b | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities |
| PROC9 | Transfer of substance or mixture into small containers (dedicated filling line, including weighing) |
| PROC10 | Roller application or brushing of adhesive and other coating. |
| PROC13 | Treatment of articles by dipping and pouring |
| PROC14 | Production of preparations or articles by tableting, compression, extrusion, pelletisation |
| PROC15 | Use as laboratory reagent |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | |
|--|---|
| Amount used | not relevant |
| Frequency and duration of use | Covers daily exposures up to 8 hours (unless stated differently). |
| Human factors not influenced by risk management | None known. |
| Other given operational conditions affecting workers | Assumes use at not more than 20°C above ambient temperature. |

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| | | |
|----------|---|--|
| exposure | Assumes a good basic standard of occupational hygiene is implemented. | |
|----------|---|--|

Risk management measures

Other risk management measures:

| | | |
|---|--|--|
| Mixing operations, General exposures (closed systems) | No other specific measures identified. | |
| Film formation - air drying | No other specific measures identified. | |
| Preparation of material for application, Mixing operations (open systems) | No other specific measures identified. | |
| Spraying (automatic/robotic) | Carry out in a vented booth or extracted enclosure. | |
| Spraying, Manual | Wear a respirator conforming to EN140 with Type A/P2 filter or better. | |
| Material transfers, Non-dedicated facility | No other specific measures identified. | |
| Material transfers, Dedicated facility | No other specific measures identified. | |
| Roller, spreader, flow application | No other specific measures identified. | |
| Dipping, immersion and pouring | No other specific measures identified. | |
| Laboratory activities | No other specific measures identified. | |
| Material transfers, Drum/batch transfers, Transfer from/pouring from containers, Dedicated facility | No other specific measures identified. | |
| Production of preparations or articles by tableting, compression, extrusion, pelletisation | No other specific measures identified. | |
| General exposures (closed systems) | No other specific measures identified. | |
| General exposures (closed systems), with sample collection | No other specific measures identified. | |
| Film formation - force drying (50-100°C). Stoving (>100°C). UV/EB radiation curing | No other specific measures identified. | |

2.2 Contributing scenario controlling environmental exposure (ERC4)

| | |
|-------------------|--|
| ERC4 | Industrial use of processing aids in processes and products, not becoming part of articles |
| Assessment method | EUSES v2.1 |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|---|--|
| Amount used | Maximum daily site tonnage (kg/day) 36000 | |
| Frequency and duration of use | Emission days (days/year): 300 | |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 10 | |
| | Local marine water dilution factor: 100 | |
| Other given operational conditions affecting environmental exposure | Not applicable | |

Risk management measures

| | | |
|--|----------------|--|
| Technical conditions and measures at process level to prevent release | Not applicable | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | Not applicable | |

| | |
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| | | |
|---|--|--|
| Organizational measures to prevent/limit release from the site | Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. | |
| Conditions and measures related to 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 | |
| Conditions and measures related to external treatment of waste for disposal | Dispose of waste product or used containers according to local regulations | |
| Conditions and measures related to external recovery of waste | store finished products in closed containers (e.g, bulk tanks, drums, cans) | |
| | Incinerate, absorb, or adsorb vapours stripped from solution whenever necessary | |

3. Exposure estimation and reference to its source

3.1. Health

| | |
|--|---|
| Information for contributing exposure scenario | |
| 2.1 | The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |

3.2. Environment

| | |
|--|------------|
| Information for contributing exposure scenario | |
| 2.2 | EUSES v2.1 |

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

4.1. Health

| | |
|-------------------|--|
| Guidance - Health | Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted, Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |
|-------------------|--|

4.2. Environment

| | |
|------------------------|--|
| Guidance - Environment | Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, 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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1. Exposure scenario 05

Uses in coatings

| |
|-----------------|
| ES Ref.: 05 |
| ES Type: Worker |

| | |
|-------------------------------------|---|
| Use descriptors | PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19 SU22 ERC8a, ERC8d ESVOC SPERC 8.3b.v1 |
| Processes, tasks activities covered | 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. Professional use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure (PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19)

| | |
|--------|--|
| PROC1 | Use in closed process, no likelihood of exposure |
| PROC2 | Use in closed, continuous process with occasional controlled exposure |
| PROC3 | Use in closed batch process (synthesis or formulation) |
| PROC4 | Use in batch and other process (synthesis) where opportunity for exposure arises |
| PROC5 | Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) |
| PROC8a | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities |
| PROC8b | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities |
| PROC10 | Roller application or brushing of adhesive and other coating. |
| PROC11 | Non-industrial spraying |
| PROC13 | Treatment of articles by dipping and pouring |
| PROC15 | Use as laboratory reagent |
| PROC19 | Hand-mixing with intimate contact and only PPE available |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | |
|--|---|
| Amount used | not relevant |
| Frequency and duration of use | Covers daily exposures up to 8 hours (unless stated differently). |
| Human factors not influenced by risk management | None known. |
| Other given operational conditions affecting workers | Assumes use at not more than 20°C above ambient temperature. |

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| | | |
|----------|---|--|
| exposure | Assumes a good basic standard of occupational hygiene is implemented. | |
|----------|---|--|

Risk management measures

Other risk management measures:

| | | |
|--|--|--|
| General exposures (closed systems), Use in contained systems | No other specific measures identified. | |
| Preparation of material for application | No other specific measures identified. | |
| Film formation - air drying, outdoor | No other specific measures identified. | |
| Film formation - air drying, indoor | No other specific measures identified. | |
| Preparation of material for application, indoor | No other specific measures identified. | |
| Preparation of material for application, outdoor | Ensure operation is undertaken outdoors. | |
| Material transfers, Drum/batch transfers, Non-dedicated facility | No other specific measures identified. | |
| Material transfers, Dedicated facility, Drum/batch transfers | No other specific measures identified. | |
| Roller, spreader, flow application, indoor | No other specific measures identified. | |
| Roller, spreader, flow application, outdoor | No other specific measures identified. | |
| Spraying, Manual, indoor | Carry out in a vented booth or extracted enclosure. | |
| Spraying, Manual, outdoor | Wear a respirator conforming to EN140 with Type A/P2 filter or better. | |
| Dipping, immersion and pouring, indoor | No other specific measures identified. | |
| Dipping, immersion and pouring, outdoor | No other specific measures identified. | |
| Laboratory activities | No other specific measures identified. | |
| Hand application - finger paints, pastels, adhesives, indoor | Wear suitable gloves tested to EN374 | |
| Hand application - finger paints, pastels, adhesives | Wear suitable gloves tested to EN374 | |
| General exposures (closed systems) | No other specific measures identified. | |
| Filling / preparation of equipment from drums or containers | No other specific measures identified. | |

2.2 Contributing scenario controlling environmental exposure (ERC8a, ERC8d)

| | |
|-------------------|--|
| ERC8a | Wide dispersive indoor use of processing aids in open systems |
| ERC8d | Wide dispersive outdoor use of processing aids in open systems |
| Assessment method | EUSES v2.1 |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|--|--|
| Amount used | Maximum daily site tonnage (kg/day) 5000 | |
| Frequency and duration of use | Emission days (days/year): 365 | |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 10 | |
| | Local marine water dilution factor: 100 | |
| Other given operational conditions affecting environmental exposure | Not applicable | |

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Risk management measures

| | | |
|--|--|--|
| Technical conditions and measures at process level to prevent release | Not applicable | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | Not applicable | |
| Organizational measures to prevent/limit release from the site | Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. | |
| Conditions and measures related to 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 | |
| Conditions and measures related to external treatment of waste for disposal | Dispose of waste product or used containers according to local regulations | |
| Conditions and measures related to external recovery of waste | store finished products in closed containers (e.g, bulk tanks, drums, cans) | |
| | Incinerate, absorb, or adsorb vapours stripped from solution whenever necessary | |

3. Exposure estimation and reference to its source

3.1. Health

Information for contributing exposure scenario

| | |
|-----|---|
| 2.1 | The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |
|-----|---|

3.2. Environment

Information for contributing exposure scenario

| | |
|-----|------------|
| 2.2 | EUSES v2.1 |
|-----|------------|

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

4.1. Health

Guidance - Health

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted, Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

4.2. Environment

Guidance - Environment

Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, 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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1. Exposure scenario 06

Use in cleaning agents

ES Ref.: 06
ES Type: Worker

| | |
|-------------------------------------|---|
| Use descriptors | PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13 SU3 ERC4 ESVOC SPERC 4.4a.v1 |
| Processes, tasks activities covered | 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. Industrial use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure (PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13)

| | |
|--------|--|
| PROC1 | Use in closed process, no likelihood of exposure |
| PROC2 | Use in closed, continuous process with occasional controlled exposure |
| PROC3 | Use in closed batch process (synthesis or formulation) |
| PROC4 | Use in batch and other process (synthesis) where opportunity for exposure arises |
| PROC7 | Industrial spraying |
| PROC8a | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities |
| PROC8b | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities |
| PROC10 | Roller application or brushing of adhesive and other coating. |
| PROC13 | Treatment of articles by dipping and pouring |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | |
|---|---|
| Amount used | not relevant |
| Frequency and duration of use | Covers daily exposures up to 8 hours (unless stated differently). |
| Human factors not influenced by risk management | None known. |
| Other given operational conditions affecting workers exposure | Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented. |

Risk management measures

Other risk management measures:

| | |
|--|--|
| Application of cleaning products in closed systems | No other specific measures identified. |
|--|--|

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| | | |
|--|--|--|
| Filling / preparation of equipment from drums or containers, Dedicated facility | No other specific measures identified. | |
| Use in contained batch processes, Treatment by heating | No other specific measures identified. | |
| Degreasing small objects in cleaning station | No other specific measures identified. | |
| Cleaning with low-pressure washers | No other specific measures identified. | |
| Cleaning with high pressure washers | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour), Avoid carrying out operation for more than 4 hours, Wear suitable gloves tested to EN374 | |
| Cleaning, Surfaces, no spraying, Manual | No other specific measures identified. | |
| General exposures (closed systems) | No other specific measures identified. | |
| Bulk transfers, Non-dedicated facility | No other specific measures identified. | |
| Use in contained systems, Automated process with (semi) closed systems | No other specific measures identified. | |
| Use in contained systems, Automated process with (semi) closed systems, Drum/batch transfers | No other specific measures identified. | |

2.2 Contributing scenario controlling environmental exposure (ERC4)

| | |
|-------------------|--|
| ERC4 | Industrial use of processing aids in processes and products, not becoming part of articles |
| Assessment method | EUSES v2.1 |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|---|--|
| Amount used | Maximum daily site tonnage (kg/day) 5000 | |
| Frequency and duration of use | Emission days (days/year): 20 | |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 10 Local marine water dilution factor: 100 | |
| Other given operational conditions affecting environmental exposure | Not applicable | |

Risk management measures

| | | |
|--|---|--|
| Technical conditions and measures at process level to prevent release | Not applicable | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | Not applicable | |
| Organizational measures to prevent/limit release from the site | Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. | |
| Conditions and measures related to 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 | |
| Conditions and measures related to external treatment of waste for disposal | Dispose of waste product or used containers according to local regulations | |
| Conditions and measures related to external recovery | store finished products in closed containers (e.g, | |

| | |
|-------------------------------|-------------------------|
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| | | |
|----------|---|--|
| of waste | bulk tanks, drums, cans) | |
| | Incinerate, absorb, or adsorb vapours stripped from solution whenever necessary | |

3. Exposure estimation and reference to its source

3.1. Health

| | |
|--|---|
| Information for contributing exposure scenario | |
| 2.1 | The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |

3.2. Environment

| | |
|--|------------|
| Information for contributing exposure scenario | |
| 2.2 | EUSES v2.1 |

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

4.1. Health

| | |
|-------------------|--|
| Guidance - Health | Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted, Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |
|-------------------|--|

4.2. Environment

| | |
|------------------------|--|
| Guidance - Environment | Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, 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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1. Exposure scenario 07

Use in cleaning agents

ES Ref.: 07
ES Type: Worker

| | |
|-------------------------------------|---|
| Use descriptors | PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13 SU22 ERC8a, ERC8d ESVOC SPERC 8.4b.v1 |
| Processes, tasks activities covered | 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. Professional use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure (PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13)

| | |
|--------|--|
| PROC1 | Use in closed process, no likelihood of exposure |
| PROC2 | Use in closed, continuous process with occasional controlled exposure |
| PROC3 | Use in closed batch process (synthesis or formulation) |
| PROC4 | Use in batch and other process (synthesis) where opportunity for exposure arises |
| PROC8a | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities |
| PROC8b | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities |
| PROC10 | Roller application or brushing of adhesive and other coating. |
| PROC11 | Non-industrial spraying |
| PROC13 | Treatment of articles by dipping and pouring |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | |
|---|---|
| Amount used | not relevant |
| Frequency and duration of use | Covers daily exposures up to 8 hours (unless stated differently). |
| Human factors not influenced by risk management | None known. |
| Other given operational conditions affecting workers exposure | Assumes use at not more than 20°C above ambient temperature. Assumes a good basic standard of occupational hygiene is implemented. |

Risk management measures

Other risk management measures:

| | |
|------------------------------------|--|
| General exposures (closed systems) | No other specific measures identified. |
|------------------------------------|--|

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| | | |
|--|---|--|
| Filling / preparation of equipment from drums or containers, Dedicated facility | No other specific measures identified. | |
| Use in contained systems, Automated process with (semi) closed systems | No other specific measures identified. | |
| Use in contained systems, Automated process with (semi) closed systems, Drum/batch transfers | No other specific measures identified. | |
| Semi-automated process (e.g.: Semi-automatic application of floor care and maintenance products) | No other specific measures identified. | |
| Filling / preparation of equipment from drums or containers, Non-dedicated facility, outdoor | Ensure operation is undertaken outdoors. | |
| Cleaning, Surfaces, Manual, Dipping, immersion and pouring | No other specific measures identified. | |
| Cleaning with low-pressure washers | No other specific measures identified. | |
| Cleaning with high pressure washers, indoor | Provide a good standard of controlled ventilation (10 to 15 air changes per hour), Wear suitable gloves tested to EN374 | |
| Cleaning with high pressure washers, outdoor | Limit the substance content in the mixture to 25 %, Ensure operation is undertaken outdoors, Wear suitable gloves tested to EN374 | |
| Cleaning, Surfaces, Spraying, Manual | No other specific measures identified. | |
| Ad hoc manual application via trigger sprays, dipping, etc, Rolling, Brushing | No other specific measures identified. | |
| Application of cleaning products in closed systems | No other specific measures identified. | |
| Cleaning of medical devices | No other specific measures identified. | |

2.2 Contributing scenario controlling environmental exposure (ERC8a, ERC8d)

| | |
|-------------------|--|
| ERC8a | Wide dispersive indoor use of processing aids in open systems |
| ERC8d | Wide dispersive outdoor use of processing aids in open systems |
| Assessment method | EUSES v2.1 |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|--|--|
| Amount used | Maximum daily site tonnage (kg/day) 5000 | |
| Frequency and duration of use | Emission days (days/year): 365 | |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 10 | |
| | Local marine water dilution factor: 100 | |
| Other given operational conditions affecting environmental exposure | Not applicable | |

Risk management measures

| | | |
|--|---|--|
| Technical conditions and measures at process level to prevent release | Not applicable | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | Not applicable | |
| Organizational measures to prevent/limit release from the site | Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of | |

| | |
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| | | |
|---|--|--|
| | episodic releases. | |
| Conditions and measures related to 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 | |
| Conditions and measures related to external treatment of waste for disposal | Dispose of waste product or used containers according to local regulations | |
| Conditions and measures related to external recovery of waste | store finished products in closed containers (e.g, bulk tanks, drums, cans) | |
| | Incinerate, absorb, or adsorb vapours stripped from solution whenever necessary | |

3. Exposure estimation and reference to its source

3.1. Health

| | |
|--|---|
| Information for contributing exposure scenario | |
| 2.1 | The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |

3.2. Environment

| | |
|--|------------|
| Information for contributing exposure scenario | |
| 2.2 | EUSES v2.1 |

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

4.1. Health

| | |
|-------------------|--|
| Guidance - Health | Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted, Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |
|-------------------|--|

4.2. Environment

| | |
|------------------------|--|
| Guidance - Environment | Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, 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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1. Exposure scenario 08

Use in agrochemicals

ES Ref.: 08
ES Type: Worker

| | |
|-------------------------------------|---|
| Use descriptors | PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13 SU22 ERC8a, ERC8d ECPA SPERC 8d.2.v1 |
| Processes, tasks activities covered | Use as an agrochemical excipient for application by manual or machine spraying, smokes and fogging; including equipment clean-downs and disposal. Professional use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure (PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC11, PROC13)

| | |
|--------|--|
| PROC1 | Use in closed process, no likelihood of exposure |
| PROC2 | Use in closed, continuous process with occasional controlled exposure |
| PROC4 | Use in batch and other process (synthesis) where opportunity for exposure arises |
| PROC8a | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities |
| PROC8b | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities |
| PROC11 | Non-industrial spraying |
| PROC13 | Treatment of articles by dipping and pouring |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|---|-------------|
| Amount used | not relevant | |
| Frequency and duration of use | Covers frequency up to: 5 days per week | 4 hours/day |
| Human factors not influenced by risk management | None known. | |
| Other given operational conditions affecting workers exposure | Assumes use at not more than 20°C above ambient temperature. | |
| | Assumes a good basic standard of occupational hygiene is implemented. | |

Risk management measures

Other risk management measures:

| | | |
|---|---|--|
| General exposures (closed systems) | No other specific measures identified. | |
| Transfer from/pouring from containers, Dedicated facility | No other specific measures identified. | |
| Mixing operations (open systems), outdoor | No other specific measures identified. | |
| Spraying/ fogging by machine application, outdoor | Ensure operation is undertaken outdoors. | |
| Spraying/ fogging by machine application | Carry out in a vented booth or extracted enclosure. | |

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| | | |
|--|--|--|
| Ad hoc manual application via trigger sprays, dipping, etc | No other specific measures identified. | |
| Equipment cleaning and maintenance | No other specific measures identified. | |
| Disposal of wastes, outdoor | Ensure operation is undertaken outdoors. | |
| Storage, outdoor | No other specific measures identified. | |

2.2 Contributing scenario controlling environmental exposure (ERC8a, ERC8d)

| | |
|-------------------|--|
| ERC8a | Wide dispersive indoor use of processing aids in open systems |
| ERC8d | Wide dispersive outdoor use of processing aids in open systems |
| Assessment method | EUSES v2.1 |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|---|--|
| Amount used | Maximum daily site tonnage (kg/day) 410 | |
| Frequency and duration of use | Emission days (days/year): 365 | |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 10 | |
| | Local marine water dilution factor: 100 | |
| Other given operational conditions affecting environmental exposure | Not applicable | |

Risk management measures

| | | |
|--|----------------|--|
| Technical conditions and measures at process level to prevent release | Not applicable | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | Not applicable | |
| Organizational measures to prevent/limit release from the site | Not applicable | |
| Conditions and measures related to sewage treatment plant | Not applicable | |
| Conditions and measures related to external treatment of waste for disposal | Not applicable | |
| Conditions and measures related to external recovery of waste | Not applicable | |

3. Exposure estimation and reference to its source

3.1. Health

| | |
|--|---|
| Information for contributing exposure scenario | |
| 2.1 | The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |

3.2. Environment

| | |
|--|------------|
| Information for contributing exposure scenario | |
| 2.2 | EUSES v2.1 |

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

| | |
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4.1. Health

| | |
|-------------------|--|
| Guidance - Health | Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted, Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |
|-------------------|--|

4.2. Environment

| | |
|------------------------|--|
| Guidance - Environment | Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, 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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1. Exposure scenario 09

Uses in coil coatings

ES Ref.: 09
ES Type: Worker

| | |
|-------------------------------------|--|
| Use descriptors | PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15 SU3 ERC4 ECCA SPERC 5.1 b.v1 |
| Processes, tasks activities covered | Covers the use in coil coatings 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. Industrial use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure (PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15)

| | |
|--------|--|
| PROC1 | Use in closed process, no likelihood of exposure |
| PROC2 | Use in closed, continuous process with occasional controlled exposure |
| PROC3 | Use in closed batch process (synthesis or formulation) |
| PROC4 | Use in batch and other process (synthesis) where opportunity for exposure arises |
| PROC5 | Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) |
| PROC7 | Industrial spraying |
| PROC8a | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities |
| PROC8b | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities |
| PROC9 | Transfer of substance or mixture into small containers (dedicated filling line, including weighing) |
| PROC10 | Roller application or brushing of adhesive and other coating. |
| PROC13 | Treatment of articles by dipping and pouring |
| PROC15 | Use as laboratory reagent |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | |
|--|---|
| Amount used | not relevant |
| Frequency and duration of use | Covers daily exposures up to 8 hours (unless stated differently). |
| Human factors not influenced by risk management | None known. |
| Other given operational conditions affecting workers | Assumes use at not more than 20°C above ambient |

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| | | |
|----------|---|--|
| exposure | temperature. | |
| | Assumes a good basic standard of occupational hygiene is implemented. | |

Risk management measures

Other risk management measures:

| | | |
|---|--|--|
| General exposures (closed systems) | No other specific measures identified. | |
| General exposures (closed systems), with sample collection | No other specific measures identified. | |
| Film formation - force drying (50-100°C). Stoving (>100°C). UV/EB radiation curing | No other specific measures identified. | |
| Mixing operations, General exposures (closed systems) | No other specific measures identified. | |
| Film formation - air drying | No other specific measures identified. | |
| Preparation of material for application, Mixing operations (open systems) | No other specific measures identified. | |
| Spraying (automatic/robotic) | Carry out in a vented booth or extracted enclosure. | |
| Spraying, Manual | Wear a respirator conforming to EN140 with Type A/P2 filter or better. | |
| Material transfers, Non-dedicated facility | No other specific measures identified. | |
| Material transfers, Dedicated facility | No other specific measures identified. | |
| Roller, spreader, flow application | No other specific measures identified. | |
| Dipping, immersion and pouring | No other specific measures identified. | |
| Laboratory activities | No other specific measures identified. | |
| Material transfers, Drum/batch transfers, Transfer from/pouring from containers, Dedicated facility | No other specific measures identified. | |

2.2 Contributing scenario controlling environmental exposure (ERC4)

| | |
|-------------------|--|
| ERC4 | Industrial use of processing aids in processes and products, not becoming part of articles |
| Assessment method | EUSES v2.1 |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|--|--|
| Amount used | Maximum daily site tonnage (kg/day) 5400 | |
| Frequency and duration of use | Emission days (days/year): 220 | |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 10 | |
| | Local marine water dilution factor: 100 | |
| Other given operational conditions affecting environmental exposure | Not applicable | |

Risk management measures

| | | |
|--|---|--|
| Technical conditions and measures at process level to prevent release | Not applicable | |
| Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil | Not applicable | |
| Organizational measures to prevent/limit release from | Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of | |

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| | | |
|---|--|--|
| the site | episodic releases. | |
| Conditions and measures related to 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 | |
| Conditions and measures related to external treatment of waste for disposal | Dispose of waste product or used containers according to local regulations | |
| Conditions and measures related to external recovery of waste | store finished products in closed containers (e.g, bulk tanks, drums, cans) | |
| | Incinerate, absorb, or adsorb vapours stripped from solution whenever necessary | |

3. Exposure estimation and reference to its source

3.1. Health

| | |
|--|---|
| Information for contributing exposure scenario | |
| 2.1 | The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |

3.2. Environment

| | |
|--|------------|
| Information for contributing exposure scenario | |
| 2.2 | EUSES v2.1 |

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

4.1. Health

| | |
|-------------------|--|
| Guidance - Health | Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted, Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |
|-------------------|--|

4.2. Environment

| | |
|------------------------|--|
| Guidance - Environment | Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, 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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1. Exposure scenario 10

Uses in coatings

ES Ref.: 10
ES Type: Worker

| | |
|-------------------------------------|---|
| Use descriptors | PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15 SU3 ERC4 CEPE SPERC 4.nb.v1 |
| Processes, tasks activities covered | Covers the use in inks 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. Industrial use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario controlling worker exposure (PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15)

| | |
|--------|--|
| PROC1 | Use in closed process, no likelihood of exposure |
| PROC2 | Use in closed, continuous process with occasional controlled exposure |
| PROC3 | Use in closed batch process (synthesis or formulation) |
| PROC4 | Use in batch and other process (synthesis) where opportunity for exposure arises |
| PROC5 | Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) |
| PROC7 | Industrial spraying |
| PROC8a | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities |
| PROC8b | Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities |
| PROC9 | Transfer of substance or mixture into small containers (dedicated filling line, including weighing) |
| PROC10 | Roller application or brushing of adhesive and other coating. |
| PROC13 | Treatment of articles by dipping and pouring |
| PROC15 | Use as laboratory reagent |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | |
|--|---|
| Amount used | not relevant |
| Frequency and duration of use | Covers daily exposures up to 8 hours (unless stated differently). |
| Human factors not influenced by risk management | None known. |
| Other given operational conditions affecting workers | Assumes use at not more than 20°C above ambient |

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| | | |
|----------|---|--|
| exposure | temperature. | |
| | Assumes a good basic standard of occupational hygiene is implemented. | |

Risk management measures

Other risk management measures:

| | | |
|---|--|--|
| General exposures (closed systems) | No other specific measures identified. | |
| General exposures (closed systems), with sample collection | No other specific measures identified. | |
| Film formation - force drying (50-100°C). Stoving (>100°C). UV/EB radiation curing | No other specific measures identified. | |
| Mixing operations, General exposures (closed systems) | No other specific measures identified. | |
| Film formation - air drying | No other specific measures identified. | |
| Preparation of material for application, Mixing operations (open systems) | No other specific measures identified. | |
| Spraying (automatic/robotic) | Carry out in a vented booth or extracted enclosure. | |
| Spraying, Manual | Wear a respirator conforming to EN140 with Type A/P2 filter or better. | |
| Material transfers, Non-dedicated facility | No other specific measures identified. | |
| Material transfers, Dedicated facility | No other specific measures identified. | |
| Roller, spreader, flow application | No other specific measures identified. | |
| Dipping, immersion and pouring | No other specific measures identified. | |
| Laboratory activities | No other specific measures identified. | |
| Material transfers, Drum/batch transfers, Transfer from/pouring from containers, Dedicated facility | No other specific measures identified. | |
| Production of preparations or articles by tableting, compression, extrusion, pelletisation | No other specific measures identified. | |

2.2 Contributing scenario controlling environmental exposure (ERC4)

| | |
|-------------------|--|
| ERC4 | Industrial use of processing aids in processes and products, not becoming part of articles |
| Assessment method | EUSES v2.1 |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | Covers percentage substance in the product up to 100 % (unless stated differently). |
| Dustiness | Not applicable |
| Volatility | Low |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|--|--|
| Amount used | Maximum daily site tonnage (kg/day) 1100 | |
| Frequency and duration of use | Emission days (days/year): 300 | |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 10 | |
| | Local marine water dilution factor: 100 | |
| Other given operational conditions affecting environmental exposure | Not applicable | |

Risk management measures

| | | |
|---|----------------|--|
| Technical conditions and measures at process level to prevent release | Not applicable | |
| Technical onsite conditions and measures to reduce or | Not applicable | |

| | |
|-------------------------------|-------------------------|
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| | | |
|---|--|--|
| limit discharges, air emissions and releases to soil | | |
| Organizational measures to prevent/limit release from the site | Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. | |
| Conditions and measures related to 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 | |
| Conditions and measures related to external treatment of waste for disposal | Dispose of waste product or used containers according to local regulations | |
| Conditions and measures related to external recovery of waste | store finished products in closed containers (e.g, bulk tanks, drums, cans) | |
| | Incinerate, absorb, or adsorb vapours stripped from solution whenever necessary | |

3. Exposure estimation and reference to its source

3.1. Health

| | |
|--|---|
| Information for contributing exposure scenario | |
| 2.1 | The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |

3.2. Environment

| | |
|--|------------|
| Information for contributing exposure scenario | |
| 2.2 | EUSES v2.1 |

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

4.1. Health

| | |
|-------------------|--|
| Guidance - Health | Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted, Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |
|-------------------|--|

4.2. Environment

| | |
|------------------------|--|
| Guidance - Environment | Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, 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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1. Exposure scenario 11

Uses in coatings

ES Ref.: 11
ES Type: Consumer

| | |
|-------------------------------------|--|
| Use descriptors | PC9a, PC18 SU21 ERC8a, ERC8d ESVOC SPERC 8.3c.v1 |
| Processes, tasks activities covered | Covers the use in coatings, paints and inks including exposures during use (including product mixing, application by brush or rolling, printing and equipment cleaning). Consumer use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario consumer end-use (PC9a, PC18)

| | |
|------|---|
| PC9a | Coatings and paints, thinners, paint removers |
| PC18 | Ink and Toners |

Product characteristics

| | |
|---|---|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | < = 10% coatings, Paint, <= 45% Ink and Toners, printing inks |
| Dustiness | Not applicable |
| Volatility | Highly volatile |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|---|----------------------------|
| Amount used | coatings,Paint | <= 1000 g |
| | Ink and Toners | <= 40 g |
| Frequency and duration of use | Covers frequency up to: once in a year | 2,2 h Paint |
| | Covers frequency up to: daily yearly use | 0,5 h Printer cartridge |
| Human factors not influenced by risk management | None known. | |
| Other given operational conditions affecting consumers exposure | Covers use at ambient temperatures,Covers use in room size of > = 20 m ³ ,Open doors and windows,Covers use under typical household ventilation. | |

Risk management measures

Other risk management measures:

| | | |
|--|------------------------------|--|
| Covers concentrations up to 10%,For each use event, avoid using a product amount greater than . 1000 g,For each use, avoid using for more than . 2.2 h,Avoid using when windows closed,Avoid using in room with closed doors | Solvent-borne coatings,Paint | |
| Covers concentrations up to 45%,Covers use up to,40000 mg/day,Covers use up to ,0.5 hours/day | Inks and toner | |

2.2 Contributing scenario controlling environmental exposure (ERC8a, ERC8d)

| | |
|-------|--|
| ERC8a | Wide dispersive indoor use of processing aids in open systems |
| ERC8d | Wide dispersive outdoor use of processing aids in open systems |

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| | |
|-------------------|------------|
| Assessment method | EUSES v2.1 |
|-------------------|------------|

Product characteristics

| | |
|---|----------------------------|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | <= 10 % coatings, Paint |
| Dustiness | Not applicable |
| Volatility | Highly volatile |
| Other product characteristics | Not applicable |

Operational conditions

| | |
|---|---|
| Amount used | Maximum daily site tonnage (kg/day) 0.52 |
| Frequency and duration of use | Emission days (days/year): 365 |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 10 Local marine water dilution factor: 100 |
| Other given operational conditions affecting environmental exposure | Not applicable |

Risk management measures

| | |
|---|---|
| Conditions and measures related to sewage treatment plant | Estimated substance removal from wastewater via domestic sewage treatment (%): 87.3 |
| Conditions and measures related to external treatment of waste for disposal | Not applicable |
| Conditions and measures related to external recovery of waste | Dispose of waste cans and containers according to local regulations |

3. Exposure estimation and reference to its source

3.1. Health

| | |
|--|---------------|
| Information for contributing exposure scenario | |
| 2.1 | Consexpo v4.1 |

3.2. Environment

| | |
|--|------------|
| Information for contributing exposure scenario | |
| 2.2 | EUSES v2.1 |

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

4.1. Health

| | |
|-------------------|--|
| Guidance - 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. |
|-------------------|--|

4.2. Environment

| | |
|------------------------|--|
| Guidance - Environment | Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, 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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1. Exposure scenario 12

Use in cleaning agents

ES Ref.: 12
ES Type: Consumer

| | |
|-------------------------------------|--|
| Use descriptors | PC35 SU21 ERC8a, ERC8d ESVOC SPERC 8.4c.v1 |
| Processes, tasks activities covered | Covers the use in washing and cleaning products including spraying and wiping. Consumer use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario consumer end-use (PC35)

| | |
|------|--|
| PC35 | Washing and cleaning products (including solvent based products) |
|------|--|

Product characteristics

| | |
|---|-----------------|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | <= 10 % |
| Dustiness | Not applicable |
| Volatility | Highly volatile |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|--|------|
| Amount used | For each use event, covers use amounts up to: | 16 g |
| Frequency and duration of use | Uses per day : 1 - >3, hours/day : 1, days/year : 365 | |
| Human factors not influenced by risk management | None known. | |
| Other given operational conditions affecting consumers exposure | Covers use at ambient temperatures, Covers use in room size of > = 15 m ³ , Covers use under typical household ventilation. | |

Risk management measures

Other risk management measures:

| | | |
|---|--|--|
| Covers concentrations up to 10%, For each use event, avoid using a product amount greater than . 16 g, Duration of the activity 1 h | | |
| Covers concentrations up to 10%, For each use event, avoid using a product amount greater than . 48 g, Duration of the activity 3 h | | |

2.2 Contributing scenario controlling environmental exposure (ERC8a, ERC8d)

| | |
|-------------------|--|
| ERC8a | Wide dispersive indoor use of processing aids in open systems |
| ERC8d | Wide dispersive outdoor use of processing aids in open systems |
| Assessment method | EUSES v2.1 |

Product characteristics

| | |
|---|----------------|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | <= 10 % |
| Dustiness | Not applicable |

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| | |
|-------------------------------|-----------------|
| Volatility | Highly volatile |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|--|--|
| Amount used | Maximum daily site tonnage (kg/day) 0.27 | |
| Frequency and duration of use | Emission days (days/year): 365 | |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 10 | |
| | Local marine water dilution factor: 100 | |
| Other given operational conditions affecting environmental exposure | Not applicable | |

Risk management measures

| | | |
|---|---|--|
| Conditions and measures related to sewage treatment plant | Estimated substance removal from wastewater via domestic sewage treatment (%): 87.3 | |
| Conditions and measures related to external treatment of waste for disposal | Not applicable | |
| Conditions and measures related to external recovery of waste | Not applicable | |

3. Exposure estimation and reference to its source

3.1. Health

| | |
|--|---------------|
| Information for contributing exposure scenario | |
| 2.1 | Consexpo v4.1 |

3.2. Environment

| | |
|--|------------|
| Information for contributing exposure scenario | |
| 2.2 | EUSES v2.1 |

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

4.1. Health

| | |
|-------------------|--|
| Guidance - 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. |
|-------------------|--|

4.2. Environment

| | |
|------------------------|--|
| Guidance - Environment | Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, 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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1. Exposure scenario 13

Use in agrochemicals

ES Ref.: 13
ES Type: Consumer

| | |
|-------------------------------------|--|
| Use descriptors | PC27 SU21 ERC8a, ERC8d ECPA SPERC 8d.2.v1 |
| Processes, tasks activities covered | Covers the consumer use as a solvent or co-formulant in agrochemicals including plant protection products. Consumer use |
| Assessment method | see section 3 of this exposure scenario. |

2. Operational conditions and risk management measures

2.1 Contributing scenario consumer end-use (PC27)

| | |
|------|---------------------------|
| PC27 | Plant protection products |
|------|---------------------------|

Product characteristics

| | |
|---|-----------------|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | <= 70 % |
| Dustiness | Not applicable |
| Volatility | Highly volatile |
| Other product characteristics | Not applicable |

Operational conditions

| | | |
|---|--|-------|
| Amount used | For each use event, covers use amounts up to: | 137 g |
| Frequency and duration of use | 1 Uses per day,6 minutes/day,365 days/year,Spraying | |
| Human factors not influenced by risk management | None known. | |
| Other given operational conditions affecting consumers exposure | Covers use at ambient temperatures,Covers use in room size of > = 20 m ³ ,Covers use under typical household ventilation. | |

Risk management measures

Other risk management measures:

| | | |
|---|--|--|
| Covers concentrations up to 70%,For each use event, avoid using a product amount greater than . 137 g,Duration of the activity 6 min. | | |
|---|--|--|

2.2 Contributing scenario controlling environmental exposure (ERC8a, ERC8d)

| | |
|-------------------|--|
| ERC8a | Wide dispersive indoor use of processing aids in open systems |
| ERC8d | Wide dispersive outdoor use of processing aids in open systems |
| Assessment method | EUSES v2.1 |

Product characteristics

| | |
|---|-----------------|
| Physical form | liquid |
| Concentration of the Substance in Mixture/Article | <= 70 % |
| Dustiness | Not applicable |
| Volatility | Highly volatile |

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| | |
|-------------------------------|----------------|
| Other product characteristics | Not applicable |
|-------------------------------|----------------|

Operational conditions

| | | |
|---|---|--|
| Amount used | Maximum daily site tonnage (kg/day) 410 | |
| Frequency and duration of use | Emission days (days/year): 365 | |
| Environmental factors not influenced by risk management | Local freshwater dilution factor: 10 | |
| | Local marine water dilution factor: 100 | |
| Other given operational conditions affecting environmental exposure | Not applicable | |

Risk management measures

| | | |
|---|----------------|--|
| Conditions and measures related to sewage treatment plant | Not applicable | |
| Conditions and measures related to external treatment of waste for disposal | Not applicable | |
| Conditions and measures related to external recovery of waste | Not applicable | |

3. Exposure estimation and reference to its source

3.1. Health

| | |
|--|---------------|
| Information for contributing exposure scenario | |
| 2.1 | Consexpo v4.1 |

3.2. Environment

| | |
|--|------------|
| Information for contributing exposure scenario | |
| 2.2 | EUSES v2.1 |

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

4.1. Health

| | |
|-------------------|--|
| Guidance - 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. |
|-------------------|--|

4.2. Environment

| | |
|------------------------|--|
| Guidance - Environment | Predicted exposures are not expected to exceed the PNECs when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented, 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, Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html). |
|------------------------|--|