

according to Regulation (EC) No 1907/2006 (REACH) as amended

TELKYD T330

| | | | |
|---------------|-------------------|---------|-----|
| Creation date | 08th August 2018 | Version | 3.0 |
| Revision date | 25th January 2022 | | |

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

- 1.1. Product identifier**
Substance / mixture TELKYD T330
UFI mixture
Other mixture names 3WYV-C00F-S00N-TW54
Synthetic enamel gloss
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Varnish. For professional use only.
Main intended use
PC-PNT-3 Paints/coatings - Protective and functional
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
Exposure scenario is attached to the Safety Data Sheet.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name BARVY A LAKY TELURIA, s.r.o.
Address č.p.1, Skrchov, 679 61
Czech Republic
Identification number (CRN) 43420371
VAT Reg No CZ43420371
Phone +420 516 474 211
E-mail tel@teluria.cz
Web address http://www.bal.cz
- Competent person responsible for the safety data sheet**
Name BARVY A LAKY TELURIA, s.r.o.
E-mail tel@teluria.cz
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Flam. Liq. 3, H226
Acute Tox. 4, H312+H332
Skin Irrit. 2, H315
Skin Sens. 1A, H317
Eye Irrit. 2, H319
STOT SE 3, H335
Carc. 1B, H350
STOT RE 2, H373

Full text of all classifications and hazard statements is given in the section 16.

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Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May cause cancer. May cause an allergic skin reaction. Harmful in contact with skin or if inhaled.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

xylene (mixture of isomers and ethylbenzene)

2-butanone oxime

Cobalt bis(2-ethylhexanoate)

Hazard statements

| | |
|-----------|--|
| H226 | Flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H350 | May cause cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H312+H332 | Harmful in contact with skin or if inhaled. |

Precautionary statements

| | |
|-----------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261 | Avoid breathing vapours/spray. |
| P264 | Wash hands and exposed parts of the body thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P312 | Call a doctor if you feel unwell. |
| P501 | Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town. |

Supplemental information

| | |
|--------|---|
| EUH211 | Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Restricted to professional users. |
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| | |
|---|--|
| Density | 1-1,2 g/cm ³ at 23 °C (EN ISO 2811-1) |
| VOC | 0,47-0,52 kg/kg |
| TOC | 0,42-0,45 kg/kg |
| Dry matter | ≥43 % volume |
| Max. VOC content in the product in its ready to use condition | |

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of pigments and fillers in solution of alkyd and alkyd-urethane resins in organic solvents with addition of additives and driers.

The mixture contains a reaction mixture of o, m, p-xylene and ethylbenzene (ethylbenzene content <26%).

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|---|--|---------------------|---|------|
| EC: 905-562-9 Registration number: 01-2119555267-33 | xylene (mixture of isomers and ethylbenzene) | 41-46 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 | 1, 3 |
| Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29 | 2-methoxy-1-methylethyl acetate | 6-7 | Flam. Liq. 3, H226 | 3 |
| Index: 649-356-00-4 EC: 918-668-5 Registration number: 01-2119455851-35 | hydrocarbons, C9, aromatics | 2-3 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH066 | 2, 5 |

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| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
| Index: 616-014-00-0 CAS: 96-29-7 EC: 202-496-6 Registration number: 01-2119539477-28 | 2-butanone oxime | 0,9-0,99 | Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT SE 3, H336 Carc. 1B, H350 STOT SE 1, H370 (upper respiratory tract) STOT RE 2, H373 (blood system) Specific concentration limit: ATE Dermal = 1100 mg/kg bw ATE Oral = 100 mg/kg bw | |
| CAS: 22464-99-9 EC: 245-018-1 Registration number: 01-2119979088-21 | 2-ethylhexanoic acid, zirconium salt | 0,4-0,5 | Repr. 2, H361d | |
| CAS: 136-51-6 EC: 205-249-0 Registration number: 01-2119978297-19 | calcium bis(2-ethylhexanoate) | 0,26-0,32 | Eye Dam. 1, H318 Repr. 2, H361d | |
| CAS: 136-52-7 EC: 205-250-6 Registration number: 01-2119524678-29 | Cobalt bis(2-ethylhexanoate) | 0,14-0,18 | Skin Sens. 1A, H317 Eye Irrit. 2, H319 Repr. 1A, H360Fd Aquatic Acute 1, H400 Aquatic Chronic 3, H412 | 4 |

Notes

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260- P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.
- Substance with a Union workplace exposure limit.
- The use of the substance is restricted by Annex XVII of REACH Regulation
- Fulfilled Note P

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures
4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

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If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Provide medical treatment. For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the product.

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

If inhaled

Cough, headache. May cause respiratory irritation.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Symptomatic treatment. If you see a doctor, take this safety data sheet with you.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

For workers apart from emergency teams: Avoid inhalation of vapour, prevent skin and eye contact. Wear appropriate protective clothing and gloves. Wear eye protection and face shield if necessary. Use suitable respiratory protection. In closed spaces, ensure fresh air supply. Eliminate all ignition sources. No smoking and no open fire. Keep unnecessary personnel away.

For members of emergency teams: Use appropriate personal protective equipment – protective clothing with antistatic finish and impermeable work shoes. Treat unprotected skin with barrier cream. Anti-chemical protective gloves. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. If possible prevent leakage, close container and place damaged container in protective container.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1.1. General health measures

Use the product after due familiarization with its hazard characteristics and proper training or training in its safe use. Do not eat, drink, smoke on the site. Wash your hands and other contaminated parts of body by soap and water before eating and after the use of product is finished. Abide by requirements on personal hygiene when working with hazardous chemical products.

Use technical equipment on the site to control human and environment exposure. Regularly inspect the equipment, ensure cleaning, timely maintenance and permanent functionality. When working, use the recommended personal protective equipment listed in 8.2 of the Safety Data Sheet and in Annex to the Safety Data Sheet. Keep the protective clothing and protective equipment sound and clean. Immediately replace the damaged protective aids for sound ones. Keep the site, tools and aids clean and in sound state. On the site, keep the product in labelled containers or tanks. Store product waste and wastes contaminated by the product in suitable and properly labelled vessels located on designated marked and protected places. Ensure long-term storing of wastes containing the product outside the site.

7.1.2. Fire precautions

When using the product, prevent potential ignition or explosion of the mixture of product vapour and air caused by contact with open flame, sparks, extremely hot surfaces, electrostatic discharges. Do not smoke on the site, use non-sparking tools. Places with increased occurrence of the vapour-air mixture need to be ventilated to prevent formation of explosive mixtures. Solvent vapours are heavier than air. The site should be protected from electrostatic discharges.

7.1.3. Environmental precautions

Handle the product on a site technically adapted to avoid accidental leakage to sewerage systems, water or soil. Product waste and wastes contaminated by the product to be disposed of as hazardous waste. Waste water contaminated by the product may only be discharged to water reservoirs after the product components are properly removed in a waste water treatment plant or in other appropriate treatment plant able to remove drifted product components from water. Do not pour the product to waste water. Emissions of solvent from point sources are subjected to control requirements acc. to air protection regulations.

7.2. Conditions for safe storage, including any incompatibilities

Store the product in properly marked, closed containers in well ventilated spaces at 5 – 25 °C. The storages must meet the requirements on storing of flammable liquids and substances hazardous for aquatic life and soil. Protect from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Store away from oxidising substances and strong acids. Do not store with food, drinks, feed material, medicines. Storages should be protected from static electricity. First aid kit and water suitable for eye rinsing should be available. Keep away from products that are corrosive to metals (eg acids or pool chemicals).

| Content | Packaging type | Material of package |
|---------|----------------|---------------------|
| 17 l | bucket | FE |
| 20 l | bucket | FE |

Storage class 3A - Flammable liquids (flash point below 55 °C)

Storage temperature min 5 °C, max 25 °C

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air. Some shades of the product contain titanium dioxide. Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

7.3. Specific end use(s)

Use in coating compositions was assessed for the individual substances of the mixture. Conditions of safe use of the registered coating composition components specified in exposure scenarios to SDSs of the components are incorporated to this Safety Data Sheet and its Annex.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

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European Union
Commission Directive 2000/39/EC

| Substance name (component) | Type | Value | Note |
|---|----------------|-----------------------|------|
| xylenes | OEL 8 hours | 221 mg/m ³ | Skin |
| | OEL 8 hours | 50 ppm | |
| | OEL 15 minutes | 442 mg/m ³ | |
| | OEL 15 minutes | 100 ppm | |
| 2-methoxy-1-methylethyl acetate (CAS: 108-65-6) | OEL 8 hours | 275 mg/m ³ | Skin |
| | OEL 8 hours | 50 ppm | |
| | OEL 15 minutes | 550 mg/m ³ | |
| | OEL 15 minutes | 100 ppm | |

DNEL

2-butanone oxime

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|---------------------------|--------------------------|--------------------|
| Workers | Inhalation | 0.028 mg/m ³ | Systemic chronic effects | |
| Workers | Inhalation | 0.9 mg/m ³ | Local chronic effects | |
| Workers | Dermal | 0.004 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 0.00482 mg/m ³ | Systemic chronic effects | |
| Consumers | Inhalation | 0.43 mg/m ³ | Local chronic effects | |
| Consumers | Oral | 0.0016 mg/kg bw/day | Systemic chronic effects | |

2-ethylhexanoic acid, zirconium salt

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|-------------------------|--------------------------|--------------------|
| Workers | Inhalation | 32.97 mg/m ³ | Systemic chronic effects | |
| Workers | Dermal | 6.49 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 8.13 mg/m ³ | Systemic chronic effects | |
| Consumers | Dermal | 3.25 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Oral | 2.5 mg/kg bw/day | Systemic chronic effects | |

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2-methoxy-1-methylethyl acetate

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|-----------------------|--------------------------|--------------------|
| Workers | Inhalation | 275 mg/m ³ | Systemic chronic effects | |
| Workers | Inhalation | 550 mg/m ³ | Local acute effects | |
| Workers | Dermal | 796 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 33 mg/m ³ | Systemic chronic effects | |
| Consumers | Inhalation | 33 mg/m ³ | Systemic acute effects | |
| Consumers | Dermal | 320 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Oral | 36 mg/kg bw/day | Systemic chronic effects | |

calcium bis(2-ethylhexanoate)

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|-------------------------|--------------------------|--------------------|
| Workers | Inhalation | 39.98 mg/m ³ | Systemic chronic effects | |
| Workers | Dermal | 5.7 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 9.68 mg/m ³ | Systemic chronic effects | |
| Consumers | Dermal | 2.83 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Oral | 2.83 mg/kg bw/day | Systemic chronic effects | |

Cobalt bis(2-ethylhexanoate)

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|--------------------------|--------------------------|--------------------|
| Workers | Inhalation | 0.2351 mg/m ³ | Local chronic effects | |
| Consumers | Inhalation | 0.037 mg/m ³ | Local chronic effects | |
| Consumers | Oral | 0.0276 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 0.175 mg/m ³ | Systemic chronic effects | |

hydrocarbons, C9, aromatics

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|-----------|--------------------------|--------------------|
| Workers | Inhalation | 150 mg/kg | Systemic chronic effects | |
| Workers | Dermal | 25 mg/kg | Systemic chronic effects | |
| Consumers | Inhalation | 32 mg/kg | Systemic chronic effects | |
| Consumers | Dermal | 11 mg/kg | Systemic chronic effects | |
| Consumers | Oral | 11 mg/kg | Systemic chronic effects | |

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xylene (mixture of isomers and ethylbenzene)

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|------------------------|--------------------------|--------------------|
| Workers | Inhalation | 221 mg/m ³ | Systemic chronic effects | |
| Workers | Inhalation | 442 mg/m ³ | Systemic acute effects | |
| Workers | Inhalation | 442 mg/m ³ | Local acute effects | |
| Workers | Dermal | 212 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 65.3 mg/m ³ | Systemic chronic effects | |
| Consumers | Inhalation | 260 mg/m ³ | Systemic acute effects | |
| Consumers | Inhalation | 260 mg/m ³ | Local acute effects | |
| Consumers | Dermal | 125 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Oral | 12.5 mg/kg bw/day | Systemic chronic effects | |
| Workers | Inhalation | 221 mg/m ³ | Local chronic effects | |
| Consumers | Inhalation | 65.3 mg/m ³ | Local chronic effects | |

PNEC

2-butanone oxime

| Route of exposure | Value | Determining method |
|---|--|--------------------|
| Freshwater environment | 0.256 mg/l | |
| Water (intermittent release) | 0.118 mg/l | |
| Microorganisms in wastewater treatment plants | 177 mg/l | |
| Seawater | 0.0256 mg/kg | |
| Freshwater sediment | 1.012 mg/kg of dry substance of sediment | |
| Sea sediments | 0.101 mg/kg of dry substance of sediment | |
| Soil (agricultural) | 0.0522 mg/kg of dry substance of soil | |

2-ethylhexanoic acid, zirconium salt

| Route of exposure | Value | Determining method |
|---|--|--------------------|
| Freshwater environment | 360 µg/l | |
| Seawater | 36 µg/l | |
| Microorganisms in wastewater treatment plants | 71.7 mg/l | |
| Freshwater sediment | 6.37 mg/kg of dry substance of sediment | |
| Sea sediments | 0.637 mg/kg of dry substance of sediment | |
| Soil (agricultural) | 1.06 mg/kg of dry substance of soil | |

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2-methoxy-1-methylethyl acetate

| Route of exposure | Value | Determining method |
|---|--|--------------------|
| Freshwater environment | 0.635 mg/l | |
| Seawater | 0.0635 mg/l | |
| Water (intermittent release) | 6.35 mg/l | |
| Microorganisms in wastewater treatment plants | 100 mg/l | |
| Freshwater sediment | 3.29 mg/kg of dry substance of sediment | |
| Sea sediments | 0.329 mg/kg of dry substance of sediment | |
| Soil (agricultural) | 0.29 mg/kg of dry substance of soil | |

calcium bis(2-ethylhexanoate)

| Route of exposure | Value | Determining method |
|---|--|--------------------|
| Freshwater environment | 0.36 mg/l | |
| Seawater | 0.036 mg/l | |
| Microorganisms in wastewater treatment plants | 71.7 mg/l | |
| Freshwater sediment | 6.37 mg/kg of dry substance of sediment | |
| Sea sediments | 0.637 mg/kg of dry substance of sediment | |
| Soil (agricultural) | 1.06 mg/kg of dry substance of soil | |

Cobalt bis(2-ethylhexanoate)

| Route of exposure | Value | Determining method |
|---|---|--------------------|
| Freshwater environment | 0.0062 mg/l | |
| Seawater | 0.00236 mg/l | |
| Microorganisms in wastewater treatment plants | 0.37 mg/l | |
| Freshwater sediment | 53.8 mg/kg of dry substance of sediment | |
| Sea sediments | 69.8 mg/kg of dry substance of sediment | |
| Soil (agricultural) | 10.9 mg/kg of dry substance of soil | |

xylene (mixture of isomers and ethylbenzene)

| Route of exposure | Value | Determining method |
|---|------------|--------------------|
| Drinking water | 0.327 mg/l | |
| Seawater | 0.327 mg/l | |
| Water (intermittent release) | 0.327 mg/l | |
| Microorganisms in wastewater treatment plants | 6.58 mg/l | |

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xylene (mixture of isomers and ethylbenzene)

| Route of exposure | Value | Determining method |
|---------------------|--|--------------------|
| Freshwater sediment | 12.46 mg/kg of dry substance of sediment | |
| Sea sediments | 12.46 mg/kg of dry substance of sediment | |
| Soil (agricultural) | 2.31 mg/kg of dry substance of soil | |

8.2. Exposure controls

Conditions of safe use of the registered product composition components specified in exposure scenarios to Safety Data Sheets of the components are given in Annex of the SDS, including the required additional measures restricting the exposure – see the exposure scenarios for the intended uses of the product.

General safety and hygienic measures. When working, do not eat, drink, smoke. Before the break and after the work, hands should be washed with soap and hot water, treated with barrier cream. Overall and local ventilation, effective extraction.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Skin protection: Protective clothes with antistatic finish, protective shoes; treat unprotected skin with barrier cream. Hand protection: Chemical resistant protective gloves (EN 374-1:2003). Suitable material – PVA, fluoroelastomere and others, time of penetration corresponding to > 480 minutes. The time of penetration specified by the manufacturer should be followed and the glove replaced after expiration. If damaged, the gloves should be replaced immediately.

The selection of suitable protective gloves does not only depend on their material, but also on other qualitative features. Furthermore, since the mixture can be used for various purposes, mixed with other substances, the suitability of gloves for all purposes cannot be predetermined and must be verified in particular use.

Respiratory protection

Don't breathe vapours. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage. Ensure that containers are properly closed during storage, handling and transport. Secure storage areas against possible leakage of product into the environment (sewerage, water, soil - see 6.2). Do not flush product into drains or watercourses.

More information

Exposure scenario is attached to the Safety Data Sheet.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | liquid |
| Colour | white, black, red, violet, brown, blue, orange, purple, pink, silver, grey, green, yellow |
| Odour | typical aromatic |
| Melting point/freezing point | data not available |
| Boiling point or initial boiling point and boiling range | data not available |
| Flammability | Flammable liquid and vapour. |
| Lower and upper explosion limit | data not available |
| Flash point | 25 °C (EN ISO 2719) |

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| Auto-ignition temperature | data not available | | |
| Decomposition temperature | data not available | | |
| pH | non-soluble (in water) | | |
| Kinematic viscosity | >20,5 mm ² /s at 40 °C | | |
| Solubility in water | insoluble | | |
| Solubility in fats | not available | | |
| Partition coefficient n-octanol/water (log value) | data not available | | |
| Vapour pressure | data not available | | |
| Density and/or relative density | | | |
| Density | 1-1,2 g/cm ³ at 23 °C (EN ISO 2811-1) | | |
| 9.2. Other information | | | |
| Evaporation rate | not available | | |
| Oxidising properties | The product has no oxidizing properties. | | |
| Ignition temperature | >300 °C (EN ISO 14522) | | |
| Content of organic solvents (VOC) | 0,47-0,52 kg/kg | | |
| Total organic carbon (TOC) | 0,42-0,45 kg/kg | | |
| Solid content (dry matter) | ≥43 % volume | | |

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The product is volatile and evaporates under standard temperature and pressure. It is stable when stored and handled under standard ambient conditions.

10.3. Possibility of hazardous reactions

No known dangerous reactions when used under standard conditions. Flammable liquid. Vapours may form explosive mixture with air. Vapours are heavier than air, accumulate near the ground and below ground, and the fire can spread over long distances.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

according to Regulation (EC) No 1907/2006 (REACH) as amended

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Acute toxicity

Harmful in contact with skin or if inhaled.

2-butanone oxime

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|--------------------|------------------|--------|-------------------|------------------|----------------------------------|-----|
| Oral | LD ₅₀ | | 900 mg/kg bw | | Rat (<i>Rattus norvegicus</i>) | |
| Inhalation (vapor) | LC ₅₀ | | >4.83 mg/l of air | 4 hour | Rat (<i>Rattus norvegicus</i>) | |
| Dermal | LD ₅₀ | | 1000 mg/kg bw | | Rabbit | |
| Dermal | ATE | | 1100 mg/kg bw | | | |
| Oral | ATE | | 100 mg/kg bw | | | |

2-ethylhexanoic acid, zirconium salt

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|-------------------|------------------|----------|----------------|------------------|----------------------------------|-----|
| Oral | LD ₅₀ | OECD 401 | >5000 mg/kg bw | | Rat (<i>Rattus norvegicus</i>) | F |
| Dermal | LD ₅₀ | OECD 402 | >5000 mg/kg bw | | Rat (<i>Rattus norvegicus</i>) | F/M |

2-methoxy-1-methylethyl acetate

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|-------------------|------------------|--------|--------------------------|------------------|----------------------------------|-----|
| Oral | LD ₅₀ | | >5000 mg/kg | | Rat (<i>Rattus norvegicus</i>) | |
| Inhalation | LC ₅₀ | | >23500 mg/m ³ | 6 hour | Rat (<i>Rattus norvegicus</i>) | |
| Dermal | LD ₅₀ | | >5000 mg/kg | | Rabbit | |

calcium bis(2-ethylhexanoate)

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|-------------------|------------------|----------|-------------|------------------|----------------------------------|-----|
| Oral | LD ₅₀ | OECD 401 | 2043 mg/kg | | Rat (<i>Rattus norvegicus</i>) | F |
| Dermal | LD ₅₀ | OECD 402 | >5000 mg/kg | | Rat (<i>Rattus norvegicus</i>) | F |

Cobalt bis(2-ethylhexanoate)

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|-------------------|------------------|----------|-------------|------------------|----------------------------------|-----|
| Oral | LD ₅₀ | OECD 425 | 3129 mg/kg | | Rat (<i>Rattus norvegicus</i>) | F |
| Dermal | LD ₅₀ | OECD 402 | >2000 mg/kg | | Rat (<i>Rattus norvegicus</i>) | F/M |

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hydrocarbons, C9, aromatics

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|-------------------|------------------|--------|------------------------|------------------|-------------------------|-----|
| Oral | LD ₅₀ | | 3492 mg/kg | | Rat (Rattus norvegicus) | |
| Dermal | LD ₅₀ | | 3160 mg/kg | | Rabbit | |
| Inhalation | LC ₅₀ | | 6193 mg/m ³ | 4 hour | Rat (Rattus norvegicus) | |

xylene (mixture of isomers and ethylbenzene)

| Route of exposure | Parameter | Method | Value | Time of exposure | Species | Sex |
|-------------------|------------------|--------|-------------------------|------------------|-------------------------|-----|
| Oral | LD ₅₀ | EU B.1 | 3523 mg/kg bw | | Rat (Rattus norvegicus) | M |
| Inhalation | LC ₅₀ | EU B.2 | 27124 mg/m ³ | 4 hour | Rat (Rattus norvegicus) | M |
| Dermal | LD ₅₀ | | 12126 mg/kg bw | | Rabbit | |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

May cause cancer.

Reproductive toxicity

Based on available data the classification criteria are not met. The mixture contains sub-threshold amount cobalt bis(2-ethylhexanoate), calcium bis(2-ethylhexanoate) and 2-ethylhexanoic acid, zirconium salt, that are classified as reproductive toxicant, category 2. The other substances have no reproductive potential.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available

according to Regulation (EC) No 1907/2006 (REACH) as amended

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| | | | |
|---------------|-------------------|---------|-----|
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SECTION 12: Ecological information
12.1. Toxicity
Acute toxicity

The complete mixture has not been tested. The classification is based on the calculation method. Information on toxic effects are based on the effects of the substances, the data are taken from the safety data sheets of raw materials. The mixture is not classified as dangerous for the environment. The mixture is a source of volatile organic emissions. Avoid release to the environment.

2-butanone oxime

| Parameter | Method | Value | Time of exposure | Species | Environment |
|------------------|--------|-----------|------------------|---|-------------|
| LC ₅₀ | | >100 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| EC ₅₀ | | 201 mg/l | 48 hour | Aquatic invertebrates | |
| EC ₅₀ | | 11.8 mg/l | 72 hour | Algae and other aquatic plants | |
| EC ₅₀ | | 281 mg/l | 17 hour | Microorganisms (Photobacterium phosphoreum) | |

2-ethylhexanoic acid, zirconium salt

| Parameter | Method | Value | Time of exposure | Species | Environment |
|------------------|----------|-----------|------------------|--------------------------|-------------|
| LC ₅₀ | OECD 203 | >100 mg/l | 96 hour | Fishes (Oryzias latipes) | |
| NOEC | OECD 211 | 25 mg/l | 21 day | Daphnia (Daphnia magna) | Freshwater |

2-methoxy-1-methylethyl acetate

| Parameter | Method | Value | Time of exposure | Species | Environment |
|-------------------|--------|------------|------------------|--------------------------------|-------------|
| LC ₅₀ | | 134 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| EC ₅₀ | | 408 mg/l | 48 hour | Daphnia (Daphnia magna) | |
| ErC ₅₀ | | >1000 mg/l | 96 hour | Algae and other aquatic plants | |
| | | | | | |

calcium bis(2-ethylhexanoate)

| Parameter | Method | Value | Time of exposure | Species | Environment |
|------------------|----------|-----------|------------------|--|-------------|
| EC ₅₀ | OECD 203 | >100 mg/l | 96 hour | Fishes (Oryzias latipes) | |
| EC ₅₀ | | 49.3 mg/l | 96 hour | Algae and other aquatic plants (Desmodesmus sp.) | |

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calcium bis(2-ethylhexanoate)

| Parameter | Method | Value | Time of exposure | Species | Environment |
|------------------|----------|------------|------------------|-----------------------------------|-------------|
| EC ₅₀ | | 112.1 mg/l | 17 hour | Algae (Selenastrum capricornutum) | |
| NOEC | OECD 211 | 25 mg/l | 21 day | Daphnia (Daphnia magna) | |

Cobalt bis(2-ethylhexanoate)

| Parameter | Method | Value | Time of exposure | Species | Environment |
|------------------|--------|-------------|------------------|------------------------------|-------------|
| LC ₅₀ | | 41.6 mg/l | 28 day | Fishes (Oncorhynchus mykiss) | |
| EC 10 | | 0.0197 mg/l | 7 day | Aquatic invertebrates | |

hydrocarbons, C9, aromatics

| Parameter | Method | Value | Time of exposure | Species | Environment |
|------------------|--------|----------|------------------|-----------------------------------|-------------|
| LC ₅₀ | | 9.2 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| EC ₅₀ | | 3.2 mg/l | 48 hour | Daphnia (Daphnia magna) | |
| EC ₅₀ | | 2.9 mg/l | 72 hour | Algae (Selenastrum capricornutum) | |

xylene (mixture of isomers and ethylbenzene)

| Parameter | Method | Value | Time of exposure | Species | Environment |
|------------------|--------|----------|------------------|---|-------------|
| LC ₅₀ | | 2.6 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| EC ₅₀ | | 1 mg/l | 48 hour | Daphnia (Daphnia magna) | |
| LC ₅₀ | | 2.2 mg/l | 72 hour | Algae (Pseudokirchneriella subcapitata) | |

Chronic toxicity

xylene (mixture of isomers and ethylbenzene)

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|----------------|------------------|------------------------------------|-------------|
| NOEC | >1.3 mg/l | 56 day | Fishes (Oncorhynchus mykiss) | |
| NOEC | 0.96-1.17 mg/l | 7 day | Invertebrates (Ceriodaphnia dubia) | |

12.2. Persistence and degradability

according to Regulation (EC) No 1907/2006 (REACH) as amended

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Biodegradability

xylene (mixture of isomers and ethylbenzene)

| Parameter | Method | Value | Time of exposure | Environment | Result |
|-----------|-----------|-------|------------------|-------------|----------------------|
| | OECD 301F | >90 % | 28 day | | Easily biodegradable |

Data for mixture not available.

12.3. Bioaccumulative potential

2-butanone oxime

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] |
|-----------|-------|------------------|---------|-------------|------------------------------|
| Log Pow | 0.63 | | | | |

2-methoxy-1-methylethyl acetate

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] |
|-----------|-------|------------------|---------|-------------|------------------------------|
| BCF | <100 | | | | |
| Log Pow | <3 | | | | |

xylene (mixture of isomers and ethylbenzene)

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] |
|-----------|-------------|------------------|---------|-------------|------------------------------|
| BCF | 25900 ml/kg | | | | |
| Log Pow | 3.12-3.2 | | | | |

Data for mixture not available.

12.4. Mobility in soil

2-methoxy-1-methylethyl acetate

| Parameter | Value | Environment | Surrounding temperature |
|-----------|-------|-------------|-------------------------|
| Koc | 1.7 | | |

xylene (mixture of isomers and ethylbenzene)

| Parameter | Value | Environment | Surrounding temperature |
|-----------|--------|-------------|-------------------------|
| Koc | 48-129 | | |

The mixture is a liquid insoluble in water, in case of leakage into environment, it may be dispersed over large distances and penetrate into underground water. It contains components with the potential of mobility in soil. When released into the soil may occur due to contamination of groundwater.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

according to Regulation (EC) No 1907/2006 (REACH) as amended

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12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Volatile organic substances contained in the mixture have the potential to damage ozone layer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 01 11 waste paint and varnish containing organic solvents or other hazardous substances *

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 1263

14.2. UN proper shipping name

PAINT

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8. The product is transported in ordinary and covered means of transport, protected against the weather, shocks and falls.

14.7. Maritime transport in bulk according to IMO instruments

Not classified.

according to Regulation (EC) No 1907/2006 (REACH) as amended

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Additional information

| | |
|---------------------------|-------------|
| Hazard identification No. | 30 |
| UN number | 1263 |
| Classification code | F1 |
| Safety signs | 3 |


Air transport - ICAO/IATA

| | |
|----------------------------------|-----|
| Packaging instructions passenger | 355 |
| Cargo packaging instructions | 366 |

Marine transport - IMDG

| | |
|----------------------|----------|
| EmS (emergency plan) | F-E, S-E |
| MFAG | 310 |

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

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Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

Cobalt bis(2-ethylhexanoate)

| Restriction | Conditions of restriction |
|-------------|---|
| 30 | <p>Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:</p> <p>1. Shall not be placed on the market, or used,</p> <ul style="list-style-type: none"> – as substances, – as constituents of other substances, or, – in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than: <ul style="list-style-type: none"> – either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or, – the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008. <p>Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:</p> <p>“Restricted to professional users”.</p> <p>2. By way of derogation, paragraph 1 shall not apply to:</p> <ul style="list-style-type: none"> (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: <ul style="list-style-type: none"> – motor fuels which are covered by Directive 98/70/EC, – mineral oil products intended for use as fuel in mobile or fixed combustion plants, – fuels sold in closed systems (e.g. liquid gas bottles); (d) artists’ paints covered by Regulation (EC) No 1272/2008; (e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date. (f) devices covered by Regulation (EU) 2017/745. |

15.2. Chemical safety assessment

Chemical safety assessment was carried out on the individual substances of the mixture. The respective exposure scenarios are incorporated in Annex of this Safety Data Sheet.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

| | |
|--------|---|
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H350 | May cause cancer. |
| H360Fd | May damage fertility. Suspected of damaging the unborn child. |

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| | |
|-----------|--|
| H361d | Suspected of damaging the unborn child. |
| H370 | Causes damage to upper respiratory tract. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to blood system through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H312+H332 | Harmful in contact with skin or if inhaled. |

Guidelines for safe handling used in the safety data sheet

| | |
|-----------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P261 | Avoid breathing vapours/spray. |
| P264 | Wash hands and exposed parts of the body thoroughly after handling. |
| P312 | Call a doctor if you feel unwell. |
| P501 | Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town. |

A list of additional standard phrases used in the safety data sheet

| | |
|--------|--|
| EUH211 | Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

| | |
|------------------|---|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CE ₅₀ | Concentration of a substance when it is affected 50% of the population |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |
| EuPCS | European Product Categorisation System |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| LC ₅₀ | Lethal concentration of a substance in which it can be expected death of 50% of the population |
| LD ₅₀ | Lethal dose of a substance in which it can be expected death of 50% of the population |

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| | |
|-----------------|---|
| log Kow | Octanol-water partition coefficient |
| LZO | Volatile organic compounds |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| NOEC | No observed effect concentration |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| UE | European Union |
| UN | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| vPvB | Very Persistent and very Bioaccumulative |
| WE | Identification code for each substance listed in EINECS |
| | |
| Acute Tox. | Acute toxicity |
| Aquatic Acute | Hazardous to the aquatic environment |
| Aquatic Chronic | Hazardous to the aquatic environment (chronic) |
| Asp. Tox. | Aspiration hazard |
| Carc. | Carcinogenicity |
| Eye Dam. | Serious eye damage |
| Eye Irrit. | Eye irritation |
| Flam. Liq. | Flammable liquid |
| Repr. | Reproductive toxicity |
| Skin Irrit. | Skin irritation |
| Skin Sens. | Skin sensitization |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

The product is exclusively intended for use in installations authorised according to Directive 1999/13/EC where emission limiting measures provide alternative means of achieving at least equivalent VOC emission reductions. For professional use only.

Information about data sources used to compile the Safety Data Sheet

Commission Regulation (EU) 2020/878 of 18 June 2020. REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from 8.6.2020. Overall revision of SDS according to Commission Regulation (EU) 2020/878. Change of composition and classification of the product.

Statement

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The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

Annex to the Product Safety Data Sheet - EXPOSURE SCENARIO

1. Industrial use

| | |
|---|--|
| Application sector | : SU 3 |
| Chemical product category | : PC9a |
| Partial processes covered by exposure scenario: | PROC1, PROC2, PROC 3, PROC4, PROC5, PROC 7, PROC8a, PROC8b, PROC10, PROC13, PROC15 |
| Environmental release | : ERC4 |

Basic conditions to control the hazard for workers:

| | |
|---|--|
| Duration of work activities | : Covers exposure up to 8 h/d (unless otherwise specified) |
| Concentration | : Work with standard coating composition or coating composition thinned by solvents containing the same volatile components as the coating composition is anticipated. |
| Temperature | : Work at temperature up to 20 °C higher than site temperature is anticipated except for the coating composition's drying and hardening processes at increased temperature. |
| General risk management measures | : Wear protective working clothes. Wear protective gloves and eye protection if in danger of contact with the coating composition. Basic training required. Abide by general principles of safe and hygienic work with chemical substances. |
| Site where the activities are performed | : Indoor use is anticipated. |

Additional requirements to control the hazard for workers carrying out partial work activities:

| Partial work activities with the product (Partial contributing scenarios) | Process category | Required additional measures to control worker exposure |
|--|---|--|
| Pumping from/to containers and devices within a closed system with no possibility to release emission | PROC 1 Use within closed production process | Does not require further risk control measures. |
| Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure | PROC 8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). |
| Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure | PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). |
| Mixing, blending, thinning of coating composition in open devices with possible exposure to volatile components of the coating composition | PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels). | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). |
| Application by spraying. | PROC 7 Industrial spraying. | Robotic spraying in closed chambers or closed cabs with laminar extraction. In course of spraying, enter the chambers only with self-contained respirator. Manual spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory protection (half-face or full-face respirator) provided with type A/P2 filter. |
| Manual coating composition application by roller, brush or palette knife. | PROC 10 Roller, palette knife or brush application | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). |
| Dipping or pouring application of coating composition. | PROC 13 Treatment of articles by dipping and pouring | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). |
| Free drying of coating composition film at standard or slightly increased ambient temperature (by max. 20 °C) | PROC 4 Use within batch or other process where opportunity for exposure arises | Carry out in well ventilated spaces (3-5 air exchanges per hour). |
| Continuous drying and hardening processes of the coating composition film at increased temperature in drying tunnels equipped with vapour extraction | PROC 2 Use within continuous chemical production process with occasional controlled exposure (e.g. at sampling). | Does not require further risk control measures. |
| Batch drying and hardening processes of the coating composition film at increased temperature in extracted chambers | PROC 3 Use within closed batch process of mixture manufacturing. | Does not require further risk control measures. |
| Machine cleaning and washing of closed tanks, containers and devices equipped with vapour extraction | PROC 3 Use within closed batch process of mixture manufacturing | Does not require further risk control measures. |
| Manual cleaning of small containers, application devices and tools | PROC 10 Roller, palette knife or brush application (by a tool held in hand) PROC8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). |

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| Laboratory checks on the coating composition | PROC 15 Use as laboratory reagent (laboratory work with the product) | Good ventilation (3 – 5 air exchanges per hour). |
| Activities involving product waste and waste contaminated by the product | | If in risk of contact with waste, wear protective gloves. Store the waste in closable containers stored in well ventilated storages or outdoor. |

Additional requirements to control environmental hazards

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| Air emission control | When spraying, remove fly coating mist from the air extracted from the work site. If the limits for solvent consumption defined in Ordinance no. 415/2012 Coll. are exceeded, use solvent recuperation from waste air or remove the solvents by incineration or other processes guaranteeing observation of emission parameters specified in air protection regulations. |
| Water emission control | Store the coating and waste contaminated by coat in buildings structurally protected from leakage release and emergency release to surface and ground water. Treat water contaminated by coat compounds and remove solid impurities and organic compounds by sedimentation, filtration, biological treatment processes or special processes developed for treatment of water contaminated by coating compositions before discharging to surface water. When discharging the treated waste water, observe the contamination parameters specified for the involved facility by water management authority. |
| Disposal of waste | Dispose of coat waste and materials contaminated by coat and its compounds in cooperation with authorised persons as of hazardous waste. Dispose of solvent waste from tools and device cleaning as of hazardous waste. Prevent release or discharge of any liquid waste to surface and ground water unless it is treated and coating composition compounds are removed. |

2. Professional use

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| Application sector | : SU 22 |
| Chemical product category | : PC9a |
| Partial processes covered by exposure scenario: | PROC 3, PROC4, PROC5, PROC 7, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19 |
| Environmental release | : ERC 8a, ERC 8d |

Basic conditions to control the hazard for workers:

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| Duration of work activities | : Covers exposure up to 8 h/d (unless otherwise specified) |
| Concentration | : Work with standard coating composition or coating composition thinned by solvents containing the same volatile components as the coating composition is anticipated. |
| Temperature | : Work at temperature up to 20 °C higher than site temperature is anticipated except for the coating composition's drying and hardening processes at increased temperature. |
| General risk management measures | : Wear protective working clothes. Wear protective gloves and eye protection if in danger of contact with the coating composition. Basic training required. Abide by general principles of safe and hygienic work with chemical substances. |
| Site where the activities are performed | : Indoor and outdoor use is anticipated. |

Additional requirements to control the hazard for workers carrying out partial work activities:

| Partial work activities with the product (Partial contributing scenarios) | Process category | Required additional measures to control worker exposure |
|--|---|---|
| Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure | PROC 8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities | Indoor: local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). Outdoor: secure catch dripping paint |
| Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure | PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities | Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures |
| Mixing, blending, thinning of coating composition in open devices with possible exposure to volatile components of the coating composition | PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels). | Indoor: local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). Outdoor: working process a maximum of 4h per day does not require further risk control measures or use respiratory protection with filter type A. |
| Application by spraying. | PROC 11 Non industrial spraying. | Indoor: do spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory |

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| | | protection (half-face or full-face respirator) provided with type A/P2 filter. Outdoor: use respiratory protection with filter type A/P2. |
| Manual coating composition application by roller, brush or palette knife. | PROC 10 Roller, palette knife or brush application | Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures |
| Dipping or pouring application of coating composition. | PROC 13 Treatment of articles by dipping and pouring | Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: use respiratory protection with filter type A. |
| Free drying of coating composition film at standard or slightly increased ambient temperature (by max. 20 °C) | PROC 4 Use within batch or other process where opportunity for exposure arises | Indoor: carry out in well ventilated spaces (5 -- 10 air exchanges per hour). Outdoor: does not require further risk control measures |
| Batch drying and hardening processes of the coating composition film at increased temperature in extracted chambers | PROC 3 Use within closed batch process of mixture manufacturing. | Does not require further risk control measures. |
| Machine cleaning and washing of closed tanks, containers and devices equipped with vapour extraction | PROC 3 Use within closed batch process of mixture manufacturing | Does not require further risk control measures. |
| Manual cleaning of small containers, application devices and tools | PROC 10 Roller, palette knife or brush application (by a tool held in hand) | Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control measures |
| Laboratory checks on the coating composition | PROC 15 Use as laboratory reagent (laboratory work with the product) | Good ventilation (3 – 5 air exchanges per hour). |
| Manual activities involving hand contact | PROC19 Hand-mixing with intimate contact and only PPE available | Indoor. Use protective gloves, local air extraction at potential emission release or good ventilation Outdoor: use protective gloves |
| Activities involving product waste and waste contaminated by the product | | If in risk of contact with waste, wear protective gloves. Store the waste in closable containers stored in well ventilated storages or outdoor. |

Additional requirements to control environmental hazards

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| Air emission control | Does not require special risk control measures |
| Water emission control | Store the paints and waste contaminated by paints in buildings structurally protected from leakage release and emergency release to surface and ground water. Clean up waste water contaminated by paints in the Municipal wastewater treatment plants before discharging to surface water or capture or dispose them as hazardous waste in cooperation with the authorized person. Overspray and drips paint as possible to capture and dispose as hazardous waste. |
| Disposal of waste | Prevent leakage or discharge of any liquid waste into surface and groundwater unless it is cleaned up from the paint compounds. Dispose of paint waste and materials contaminated by paints and its compounds in cooperation with authorised persons as of hazardous waste. Dispose of solvent waste from tools and device cleaning as of hazardous waste. |