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

# TELPUR T 340 HS

| | | | |
|---|---|---|---|
| Creation date | 22nd November 2019 | | |
| Revision date | 24th November 2020 | Version | 2.0 |

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

**1.1. Product identifier** — TELPUR T 340 HS

Substance / mixture: mixture

Other mixture names: TWO COMPONENT POLYURETHANE HIGH SOLID ANTICORROSIVE ENAMEL

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

Mixture's intended use: Varnish. For professional use only.

**The use descriptors**

| | |
|---|---|
| PC 9a | Coatings and paints, thinners, paint removers |
| PROC 1 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions |
| PROC 2 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
| PROC 3 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
| PROC 4 | Chemical production where opportunity for exposure arises |
| PROC 5 | Mixing or blending in batch processes |
| PROC 7 | Industrial spraying |
| PROC 8a | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities |
| PROC 8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |
| PROC 10 | Roller application or brushing |
| PROC 11 | Non industrial spraying |
| PROC 13 | Treatment of articles by dipping and pouring |
| PROC 15 | Use as laboratory reagent |
| PROC 19 | Manual activities involving hand contact |
| IS | Use at industrial sites |
| PW | Widespread use by professional workers |

Mixture uses advised against: not available

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<br>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**

National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111 112



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## 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
Skin Irrit. 2, H315
Skin Sens. 1A, H317
Eye Irrit. 2, H319
STOT RE 2, H373
Aquatic Chronic 2, H411

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

**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 damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

**Hazard pictogram**

**Signal word**

Warning

**Hazardous substances**

n-butyl acetate
xylene ( mixture of isomers and ethylbenzene )
reaction mass bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

**Hazard statements**

| | |
|---|---|
| H226 | Flammable liquid and vapour. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |

**Precautionary statements**

| | |
|---|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261 | Avoid breathing spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |

**Supplemental information**



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| | |
|---|---|
| EUH211 | Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. |
| Density | 1.32 - 1.40 mixt. g/cm³ |
| VOC | 0.22 - 0.26 kg/kg hardened mixture |
| TOC | 0.19 - 0.23 kg/kg hardened mixture |
| Dry matter | 64±2 mixt. % volume |

**2.3. Other hazards**

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. Vapours have intoxicating and narcotic effect, causing headaches, eye irritation and respiratory tract irritation.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**Chemical characterization**

Mixture of pigments and fillers in solution of acrylic resin in organic solvents with addition of UV stabilizers.
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 |
|---|---|---|---|---|
| Index: 607-025-00-1<br>CAS: 123-86-4<br>EC: 204-658-1<br>Registration number: 01-2119485493-29 | n-butyl acetate | 12-17 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066 | 6 |
| Index: 022-006-00-2<br>CAS: 13463-67-7<br>EC: 236-675-5<br>Registration number: 01-2119489379-17-0013 | titanium dioxide | 0-20 | Carc. 2, H351 (inhalation)<br>EUH211<br>EUH212 | 3, 4, 5 |
| EC: 905-562-9<br>Registration number: 01-2119555267-33 | xylene ( mixture of isomers and ethylbenzene ) | 6-11 | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Acute Tox. 4, H312+H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Specific concentration limit:<br>Acute Tox. 4, H312+H332: C ≥ 12,5 % | 2, 6, 7 |
| Index: 030-011-00-6<br>CAS: 7779-90-0<br>EC: 231-944-3<br>Registration number: 01-21194850-44-40-0001 | trizinc bis(orthophosphate) | 4-5 | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | |
| Index: 607-195-00-7<br>CAS: 108-65-6<br>EC: 203-603-9<br>Registration number: 01-2119475791-29 | 2-methoxy-1-methylethyl acetate | 0-7,2 | Flam. Liq. 3, H226 | 6 |



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| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|---|---|---|---|---|
| Registration number: 01-2119491304-40 | reaction mass bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 1-3 | Skin Sens. 1A, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 | |
| CAS: 22464-99-9<br>EC: 245-018-1<br>Registration number: 01-2119979088-21 | 2-ethylhexanoic acid, zirconium salt | <0,7 | Repr. 2, H361d | |
| Index: 015-011-00-6<br>CAS: 7664-38-2<br>EC: 231-633-2 | phosphoric acid . % | 0,06 | Skin Corr. 1B, H314<br>Specific concentration limit:<br>Skin Corr. 1B, H314: C ≥ 25 %<br>Eye Irrit. 2, H319: 10 % ≤ C < 25 %<br>Skin Irrit. 2, H315: 10 % ≤ C < 25 % | 1, 6 |

**Notes**

1 Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid … %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

2 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.

3 Note V: If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.

4 Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

5 Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

6 Substance for which exposure limits of Community for working environment exist.

7 Substance for which biological limit values exist.

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.

**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.



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**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**

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

**If inhaled**

Cough, headache.

**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**

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. 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.

## 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.



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**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).

| | |
|---|---|
| Storage class | 3A - Flammable liquids (flash point below 55 °C) |
| Material of package | FE (40), Steel (Metals) |


| | |
|---|---|
| Storage temperature | min 5 °C, max 25 °C |

**The specific requirements or rules relating to the substance/mixture**

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

### 7.3. Specific end use(s)

Use in coating compositions was assessed for substances hydrocarbons, C9, aromatics, xylene, n-butyl acetate, 2-methoxy-1 -methyl-ethyl acetate and zink phosphate. 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 |
|---|---|---|---|
| n-butyl acetate (CAS: 123-86-4) | OEL 8 hours | 241 mg/m³ | |
| | OEL 8 hours | 50 ppm | |
| | OEL 15 minutes | 723 mg/m³ | |
| | OEL 15 minutes | 150 ppm | |
| 2-methoxy-1-methylethyl acetate (CAS: 108-65-6) | OEL 8 hours | 275 mg/m³ | Skin |
| | OEL 8 hours | 50 ppm | |
| | OEL 15 minutes | 550 mg/m³ | |
| | OEL 15 minutes | 100 ppm | |
| phosphoric acid . % (CAS: 7664-38-2) | OEL 8 hours | 1 mg/m³ | |
| | OEL 15 minutes | 2 mg/m³ | |

**United Kingdom of Great Britain and Northern Ireland** **EH40/2005 Workplace exposure limits (Fourth Edition 2020)**

| Substance name (component) | Type | Value | Note |
|---|---|---|---|
| n-butyl acetate (CAS: 123-86-4) | WEL 8h | 724 mg/m³ | |
| | WEL 8h | 150 ppm | |
| | WEL 15min | 966 mg/m³ | |
| | WEL 15min | 200 ppm | |
| Xylene, o-,m-,p- or mixed isomers | WEL 8h | 220 mg/m³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |
| | WEL 8h | 50 ppm | |
| | WEL 15min | 441 mg/m³ | |
| | WEL 15min | 100 ppm | |
| 2-methoxy-1-methylethyl acetate (CAS: 108-65-6) | WEL 8h | 274 mg/m³ | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |



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**United Kingdom of Great Britain and Northern Ireland** **EH40/2005 Workplace exposure limits (Fourth Edition 2020)**

| Substance name (component) | Type | Value | Note |
|---|---|---|---|
| 2-methoxy-1-methylethyl acetate (CAS: 108-65-6) | WEL 8h | 50 ppm | Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. |
| | WEL 15min | 548 mg/m³ | |
| | WEL 15min | 100 ppm | |
| phosphoric acid . % (CAS: 7664-38-2) | WEL 8h | 1 mg/m³ | |
| | WEL 15min | 2 mg/m³ | |

**Biological limit values**

**United Kingdom of Great Britain and Northern Ireland** **EH40/2005 Workplace exposure limits (Fourth Edition 2020)**

| Name | Parameter | Value | Tested material | Time of sampling |
|---|---|---|---|---|
| xylene ( mixture of isomers and ethylbenzene ) | Methylhippuric acids | 650 µmol/mmol creatinine | Urine | End of shift |

**DNEL**

2-ethylhexanoic acid, zirconium salt

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---|---|---|---|---|
| Workers | Inhalation | 32 mg/m³ | Systemic chronic effects | |
| Workers | Dermal | 6.49 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 8 mg/m³ | 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/m³ | Systemic chronic effects | |
| Workers | Inhalation | 550 mg/m³ | Local acute effects | |
| Workers | Dermal | 796 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 33 mg/m³ | Systemic chronic effects | |
| Consumers | Inhalation | 33 mg/m³ | Systemic acute effects | |
| Consumers | Dermal | 320 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Oral | 36 mg/kg bw/day | Systemic chronic effects | |

n-butyl acetate

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---|---|---|---|---|
| Workers | Inhalation | 48 mg/m³ | Systemic chronic effects | |
| Workers | Inhalation | 600 mg/m³ | Systemic acute effects | |
| Workers | Inhalation | 300 mg/m³ | Local chronic effects | |
| Workers | Inhalation | 600 mg/m³ | Local acute effects | |
| Workers | Dermal | 7 mg/kg bw/day | Systemic chronic effects | |
| Workers | Dermal | 11 mg/kg bw/day | Systemic acute effects | |
| Consumers | Inhalation | 12 mg/m³ | Systemic chronic effects | |
| Consumers | Inhalation | 300 mg/m³ | Systemic acute effects | |
| Consumers | Inhalation | 35.7 mg/m³ | Local chronic effects | |
| Consumers | Inhalation | 300 mg/m³ | Local acute effects | |
| Consumers | Dermal | 3.4 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Dermal | 6 mg/kg bw/day | Systemic acute effects | |
| Consumers | Oral | 2 mg/kg bw/day | Systemic chronic effects | |

reaction mass bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---|---|---|---|---|
| Workers | Dermal | 2.5 mg/kg | Systemic acute effects | |
| Workers | Inhalation | 2.35 mg/m³ | Systemic acute effects | |
| Workers | Dermal | 2.5 mg/kg | Systemic chronic effects | |
| Workers | Inhalation | 2.35 mg/m³ | Systemic chronic effects | |
| Consumers | Dermal | 1.25 mg/kg | Systemic acute effects | |
| Consumers | Inhalation | 0.58 mg/m³ | Systemic acute effects | |
| Consumers | Dermal | 1.25 mg/kg | Systemic chronic effects | |
| Consumers | Inhalation | 0.58 mg/m³ | Systemic chronic effects | |
| Consumers | Oral | 1.25 mg/kg | Systemic chronic effects | |



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trizinc bis(orthophosphate)

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---|---|---|---|---|
| Workers | Inhalation | 5 mg/kg | Systemic chronic effects | |
| Workers | Dermal | 83 mg/kg | Systemic chronic effects | |
| Consumers | Inhalation | 2.5 mg/kg | Systemic chronic effects | |
| Consumers | Dermal | 83 mg/kg | Systemic chronic effects | |
| Consumers | Oral | 0.83 mg/kg | Systemic chronic effects | |

xylene ( mixture of isomers and ethylbenzene )

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---|---|---|---|---|
| Workers | Inhalation | 77 mg/m³ | Systemic chronic effects | |
| Workers | Inhalation | 289 mg/m³ | Systemic acute effects | |
| Workers | Inhalation | 289 mg/m³ | Local acute effects | |
| Workers | Dermal | 180 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 14.8 mg/m³ | Systemic chronic effects | |
| Consumers | Inhalation | 174 mg/m³ | Systemic acute effects | |
| Consumers | Inhalation | 174 mg/m³ | Local acute effects | |
| Consumers | Dermal | 108 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Oral | 1.6 mg/kg bw/day | Systemic chronic effects | |

**PNEC**

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 | |

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 | |



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2-methoxy-1-methylethyl acetate

| Route of exposure | Value | Determining method |
|---|---|---|
| Soil (agricultural) | 0.29 mg/kg of dry substance of soil | |

n-butyl acetate

| Route of exposure | Value | Determining method |
|---|---|---|
| Freshwater environment | 0.18 mg/l | |
| Seawater | 0.018 mg/l | |
| Water (intermittent release) | 0.36 mg/l | |
| Microorganisms in wastewater treatment plants | 35.6 mg/l | |
| Freshwater sediment | 0.981 mg/kg of dry substance of sediment | |
| Sea sediments | 0.0981 mg/kg of dry substance of sediment | |
| Soil (agricultural) | 0.0903 mg/kg of dry substance of soil | |

trizinc bis(orthophosphate)

| Route of exposure | Value | Determining method |
|---|---|---|
| Freshwater environment | 0.0206 mg/l | |
| Seawater | 0.0061 mg/l | |
| Microorganisms in wastewater treatment plants | 0.1 mg/l | |
| Freshwater sediment | 117.8 mg/kg of dry substance of sediment | |
| Sea sediments | 56.5 mg/kg of dry substance of sediment | |
| Soil (agricultural) | 35.6 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 | |
| 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 | |



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**8.2. Exposure controls**

Conditions of safe use of the registered coating 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 coating composition.
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 – nitrile rubber (0.4 mm), PVA (0.7 mm) 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**

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**

| | |
|---|---|
| Appearance | |
| physical state | liquid at 20 °C |
| color | according to the shade |
| Odour | typical aromatic |
| Odour threshold | data not available |
| pH | data not available |
| Melting point/freezing point | data not available |
| Initial boiling point and boiling range | data not available |
| Flash point | >24 °C (EN ISO 2719) |
| Evaporation rate | data not available |
| Flammability (solid, gas) | Flammable liquid and vapour. |
| Upper/lower flammability or explosive limits | |
| flammability limits | data not available |
| explosive limits | data not available |
| Vapour pressure | data not available |
| Vapour density | data not available |
| Relative density | data not available |
| Solubility(ies) | |
| solubility in water | almost insoluble |
| solubility in fats | data not available |
| Partition coefficient: n-octanol/water | data not available |



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| | |
|---|---|
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| Viscosity | data not available |
| Kinematic viscosity | >20.5 mm²/s at 40 °C |
| Explosive properties | The product does not have explosive properties but can be explosive when blended with air. |
| Oxidising properties | The product has no oxidizing properties. |

**9.2. Other information**

| | |
|---|---|
| Density | 1.32 - 1.40 mixt. g/cm³ at 23 °C (EN ISO 2811-1) |
| ignition temperature | >300 °C (EN ISO 14522) |
| content of organic solvents (VOC) | 0.22 - 0.26 kg/kg hardened mixture |
| total organic carbon (TOC) | 0.19 - 0.23 kg/kg hardened mixture |
| solid content (dry matter) | 64±2 mixt. % 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**

Unknown.

**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 toxicological effects**

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.

**Acute toxicity**

Based on available data the classification criteria are not met.

2-ethylhexanoic acid, zirconium salt

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|---|---|---|---|---|---|
| Oral | $LD_{50}$ | >5000 mg/kg bw | | Rat | F |
| Dermal | $LD_{50}$ | >5000 mg/kg bw | | Rat | F/M |

2-methoxy-1-methylethyl acetate

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|---|---|---|---|---|---|
| Oral | $LD_{50}$ | >5000 mg/kg | | Rat (Rattus norvegicus) | |



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2-methoxy-1-methylethyl acetate

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|---|---|---|---|---|---|
| Inhalation | $LC_{50}$ | >23500 mg/m³ | 6 hour | Rat (Rattus norvegicus) | |
| Dermal | $LD_{50}$ | >5000 mg/kg | | Rabbit | |

n-butyl acetate

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|---|---|---|---|---|---|
| Oral | $LD_{50}$ | 10760 mg/kg | | Rat (Rattus norvegicus) | |
| Inhalation (gases) | $LC_{50}$ | 2000 ppm | 4 hour | Rat (Rattus norvegicus) | |
| Dermal | $LD_{50}$ | 1400 mg/kg | | Rabbit | |

reaction mass bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|---|---|---|---|---|---|
| Oral | $LD_{50}$ | 3230 mg/kg bw/day | | Rat (Rattus norvegicus) | |

titanium dioxide

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|---|---|---|---|---|---|
| Oral | $LD_{50}$ | 5000 mg/kg | | | |
| Inhalation | $LC_{50}$ | 6.82 mg/l | | | |

trizinc bis(orthophosphate)

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|---|---|---|---|---|---|
| Oral | $LD_{50}$ | 5000 mg/kg | | Rat (Rattus norvegicus) | |

xylene ( mixture of isomers and ethylbenzene )

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|---|---|---|---|---|---|
| Oral | $LD_{50}$ | 3523 mg/kg bw | | Rat (Rattus norvegicus) | M |
| Inhalation | $LC_{50}$ | 6350-6700 ppm | 4 hour | Rat (Rattus norvegicus) | |
| Dermal | $LD_{50}$ | >5000 mg/kg | | Rabbit | |
| Oral | $LD_{50}$ | >4000 mg/kg bw | | Rat (Rattus norvegicus) | F |
| | ATE | 1100 mg/kg | | Rabbit | |

**Skin corrosion/irritation**
Causes skin irritation.

**Serious eye damage/irritation**
Causes serious eye irritation.



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**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**Germ cell mutagenicity**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.

**Reproductive toxicity**

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

**Toxicity for specific target organ - single exposure**

Based on available data the classification criteria are not met.

**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.

## 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 classified as dangerous for the environment. Toxic to aquatic life with long lasting effects. The mixture is a source of volatile organic emissions. Avoid release to the environment.

2-ethylhexanoic acid, zirconium salt

| Parameter | Value | Time of exposure | Species | Environment |
|---|---|---|---|---|
| $LC_{50}$ | >100 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |

2-methoxy-1-methylethyl acetate

| Parameter | 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 | |
| | | | | |



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n-butyl acetate

| Parameter | Value | Time of exposure | Species | Environment |
|---|---|---|---|---|
| $LC_{50}$ | 18 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| $EC_{50}$ | 44 mg/l | 48 hour | Daphnia (Daphnia magna) | |
| $EC_{50}$ | 200 mg/l | 72 hour | Algae (Selenastrum capricornutum) | |

reaction mass bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

| Parameter | Value | Time of exposure | Species | Environment |
|---|---|---|---|---|
| $LC_{50}$ | 7.9 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| $EC_{50}$ | 20 mg/l | 24 hour | Aquatic invertebrates (Daphnia magna) | |
| $EC_{50}$ | 1.68 mg/l | 72 hour | Algae and other aquatic plants (Desmodesmus subspicatus) | |
| $EC_{50}$ | >100 mg/l | 3 hour | Microorganisms (Photobacterium phosphoreum) | |

trizinc bis(orthophosphate)

| Parameter | Value | Time of exposure | Species | Environment |
|---|---|---|---|---|
| $LC_{50}$ | 0.3-5.59 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| $LC_{50}$ | 0.89-0.96 mg/l | 48 hour | Crustaceans | |
| $EC_{50}$ | 0.29-0.32 mg/l | 72 hour | Algae and other aquatic plants | |

xylene ( mixture of isomers and ethylbenzene )

| Parameter | Value | Time of exposure | Species | Environment |
|---|---|---|---|---|
| $LC_{50}$ | 2.6 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| $IC_{50}$ | 1 mg/l | 24 hour | Daphnia (Daphnia magna) | |
| $EC_{50}$ | 4.36 mg/l | 73 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**

Data not available.



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**12.3. Bioaccumulative potential**

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 | 6-23 | | | | |
| Log Pow | 3.15-3.2 | | | | |

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 | 48-540 | | |

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.

**12.6. 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 *



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**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**

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**

The product is dangerous for the environment.

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not classified.

**Additional information**

| | |
|---|---|
| Hazard identification No. | **30** |
| UN number | **1263** |
| Classification code | F1 |
| Safety signs | 3+hazardous for the environment |


**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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**15.2. Chemical safety assessment**

Chemical safety assessment was carried out on substances xylene, n-butyl acetate, hydrocarbons, C9, aromatics, 2-methoxy -1- methylethyl-acetate and trizinc bis(orthophosphate). 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. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer if inhaled. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic 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. |
| P261 | Avoid breathing spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |

**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. |
| EUH212 | Warning! Hazardous respirable dust may be formed when used. Do not breathe dust. |

**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 |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EC | Identification code for each substance listed in EINECS |
| $EC_{50}$ | Concentration of a substance when it is affected 50% of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |



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| | |
|---|---|
| EU | European Union |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| $IC_{50}$ | Concentration causing 50% blockade |
| 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 |
| LOAEC | Lowest observed adverse effect concentration |
| LOAEL | Lowest observed adverse effect level |
| log Kow | Octanol-water partition coefficient |
| MARPOL | International Convention for the Prevention of Pollution From Ships |
| NOAEC | No observed adverse effect concentration |
| NOAEL | No observed adverse effect level |
| NOEC | No observed effect concentration |
| NOEL | No observed effect level |
| 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 |
| 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 |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bioaccumulative |

| | |
|---|---|
| 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 Irrit. | Eye irritation |
| Flam. Liq. | Flammable liquid |
| Repr. | Reproductive toxicity |
| Skin Corr. | Skin corrosion |
| 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**



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

# TELPUR T 340 HS

| | | | |
|---|---|---|---|
| Creation date | 22nd November 2019 | | |
| Revision date | 24th November 2020 | Version | 2.0 |

not available

**Information about data sources used to compile the Safety Data Sheet**

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)**

Version 2.0 replaces version 1.0 (22.11.2019). Overall revision of SDS.

**More information**

Classification procedure - calculation method.

**Statement**

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.



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## 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.<br>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.<br>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)<br>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). |

| | | |
|---|---|---|
| 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**

| | |
|---|---|
| Air emission control | When spraying, remove fly coating mist from the air extracted from the work site.<br>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.<br>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.<br>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.<br>Dispose of solvent waste from tools and device cleaning as of hazardous waste.<br>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:**

| | | |
|---|---|---|
| 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.<br>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).<br>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).<br>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).<br>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.<br>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).<br>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).<br>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).<br>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).<br>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<br>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**

| | |
|---|---|
| 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.<br>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.<br>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.<br>Dispose of paint waste and materials contaminated by paints and its compounds in cooperation with authorised persons as of hazardous waste.<br>Dispose of solvent waste from tools and device cleaning as of hazardous waste. |