

according to Commission Regulation (EU) 2020/878 as amended

## U 2129 INDUSTROL® PROFI BÁZE

|               |                 |         |     |
|---------------|-----------------|---------|-----|
| Creation date | 13th March 2017 | Version | 5.0 |
| Revision date | 29th April 2025 |         |     |

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

- 1.1. Product identifier**  
Substance / mixture U 2129 INDUSTROL® PROFI BÁZE  
UFI mixture  
E9DW-70DM-V00X-222E  
Other mixture names  
URETHANIZED ENAMEL UNIVERSAL GLOSS
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Varnish.  
**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 info@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 info@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

#### Most serious adverse physico-chemical effects

Flammable liquid and vapour.

- 2.2. Label elements**  
**Hazard pictogram**



#### Signal word

Warning

#### Hazard statements

H226

Flammable liquid and vapour.

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### Precautionary statements

|           |                                                                                                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| P102      | Keep out of reach of children.                                                                                                 |
| P210      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                 |
| P280      | Wear protective gloves/eye protection.                                                                                         |
| P403+P235 | Store in a well-ventilated place. Keep cool.                                                                                   |
| P501      | Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier. |

### Supplemental information

|                                                               |                                                    |
|---------------------------------------------------------------|----------------------------------------------------|
| Density                                                       | 1.1-1.2 g/cm <sup>3</sup> at 23 °C (EN ISO 2811-1) |
| VOC                                                           | 0,23-0,25 kg/kg                                    |
| TOC                                                           | 0,20-0,22 kg/kg                                    |
| Dry matter                                                    | 55 % volume                                        |
| VOC limit value                                               | cat. A (d) SB: 300 g/l                             |
| Max. VOC content in the product in its ready to use condition | 299 g/l                                            |

### 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. Does not contain any PMT or vPvM components. Substances are neither listed in Annex XIV of REACH nor on the REACH candidate list of substances of very high concern (SVHC).

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Dispersion of pigments and fillers in a solution of urethanized alkyd resin in organic solvents with additives.

**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: 649-327-00-6<br>EC: 918-481-9<br>Registration number: 01-2119457273-39 | Hydrocarbons, C10 – C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics | 10-11               | Asp. Tox. 1, H304<br>EUH066                                                                                                                           | 2, 4 |
| Index: 649-327-00-6<br>EC: 919-857-5<br>Registration number: 01-2119463258-33 | hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics     | 7-8                 | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H336<br>EUH066                                                                                  | 2, 4 |
| EC: 905-562-9<br>Registration number: 01-2119555267-33                        | xylene ( mixture of isomers and ethylbenzene )                           | 1.3-1.9             | 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 | 1, 3 |

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| Identification numbers                                                                            | Substance name                                                                                                     | Content in % weight | Classification according to Regulation (EC) No 1272/2008                                                                                                                              | Note |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Index: 603-014-00-0<br>CAS: 111-76-2<br>EC: 203-905-0<br>Registration number:<br>01-2119475108-36 | 2-butoxyethanol                                                                                                    | 1-1.5               | Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Acute Tox. 3, H331<br>Specific concentration limit:<br>ATE Oral = 1200 mg/kg bw<br>ATE Inhalation (vapor) = 3 mg/l | 3    |
| CAS: 120968-16-3                                                                                  | Amines, coco alkyl, ethoxylated, compounds with polyethylene glycol monooleyl ether phosphate                      | 1-1.5               | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                                                                                                                                             |      |
| CAS: 164383-18-0<br>EC: 605-358-7                                                                 | Cyclohexanamine, N,N-dimethyl-, compd. with .alpha.-isotride cyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) phosphate | 1                   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Chronic 2, H411                                                                                                                  |      |
| CAS: 27253-32-3<br>EC: 248-374-6<br>Registration number:<br>01-2120796015-52                      | manganese neodecanoate                                                                                             | 0.85                | STOT RE 2, H373 (central nervous system)<br>EUH066                                                                                                                                    |      |

### 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.
- A substance for which exposure limits are set.
- 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.

#### 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.

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**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.

**If swallowed**

Rinse out the mouth with clean water. DO NOT INDUCE VOMITING! In the event of issues, find medical help.

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

Not expected.

**If on skin**

Not expected.

**If in eyes**

Not expected.

**If swallowed**

Not expected.

**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.

**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.

**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).

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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.

### 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.

#### European Union

#### Commission Directive 2000/39/EC

| Substance name (component)      | Type           | Value                 |
|---------------------------------|----------------|-----------------------|
| xylenes                         | OEL 8 hours    | 221 mg/m <sup>3</sup> |
|                                 | OEL 8 hours    | 50 ppm                |
|                                 | OEL 15 minutes | 442 mg/m <sup>3</sup> |
|                                 | OEL 15 minutes | 100 ppm               |
| 2-butoxyethanol (CAS: 111-76-2) | OEL 8 hours    | 98 mg/m <sup>3</sup>  |
|                                 | OEL 8 hours    | 20 ppm                |
|                                 | OEL 15 minutes | 246 mg/m <sup>3</sup> |
|                                 | OEL 15 minutes | 50 ppm                |

Notes

Skin.

#### DNEL

| 2-butoxyethanol     |                   |                        |                          |
|---------------------|-------------------|------------------------|--------------------------|
| Workers / consumers | Route of exposure | Value                  | Effect                   |
| Workers             | Inhalation        | 98 mg/m <sup>3</sup>   | Chronic effects systemic |
| Workers             | Inhalation        | 1091 mg/m <sup>3</sup> | Acute effects systemic   |
| Workers             | Inhalation        | 246 mg/m <sup>3</sup>  | Acute effects local      |
| Consumers           | Inhalation        | 59 mg/m <sup>3</sup>   | Chronic effects systemic |
| Consumers           | Inhalation        | 426 mg/m <sup>3</sup>  | Acute effects systemic   |
| Consumers           | Inhalation        | 147 mg/m <sup>3</sup>  | Acute effects local      |
| Consumers           | Oral              | 6.3 mg/kg bw/day       | Chronic effects systemic |
| Consumers           | Oral              | 26.7 mg/kg bw/day      | Acute effects systemic   |

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### hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Workers / consumers | Route of exposure | Value                  | Effect                   |
|---------------------|-------------------|------------------------|--------------------------|
| Workers             | Inhalation        | 1500 mg/m <sup>3</sup> | Chronic effects systemic |
| Workers             | Dermal            | 300 mg/kg bw/day       | Chronic effects systemic |
| Consumers           | Inhalation        | 900 mg/m <sup>3</sup>  | Chronic effects systemic |
| Consumers           | Dermal            | 300 mg/kg bw/day       | Chronic effects systemic |
| Consumers           | Oral              | 300 mg/kg bw/day       | Chronic effects systemic |

### manganese neodecanoate

| Workers / consumers | Route of exposure | Value                  | Effect                   |
|---------------------|-------------------|------------------------|--------------------------|
| Workers             | Inhalation        | 1.33 mg/m <sup>3</sup> | Chronic effects systemic |
| Workers             | Dermal            | 800 µg/kg bw/24h       | Chronic effects systemic |
| Consumers           | Inhalation        | 290 µg/m <sup>3</sup>  | Chronic effects systemic |
| Consumers           | Dermal            | 400 µg/kg bw/24h       | Chronic effects systemic |
| Consumers           | Oral              | 400 µg/kg bw/24h       | Chronic effects systemic |

### xylene ( mixture of isomers and ethylbenzene )

| Workers / consumers | Route of exposure | Value                  | Effect                   |
|---------------------|-------------------|------------------------|--------------------------|
| Workers             | Inhalation        | 221 mg/m <sup>3</sup>  | Chronic effects systemic |
| Workers             | Inhalation        | 442 mg/m <sup>3</sup>  | Acute effects systemic   |
| Workers             | Inhalation        | 442 mg/m <sup>3</sup>  | Acute effects local      |
| Workers             | Dermal            | 212 mg/kg bw/day       | Chronic effects systemic |
| Consumers           | Inhalation        | 65.3 mg/m <sup>3</sup> | Chronic effects systemic |
| Consumers           | Inhalation        | 260 mg/m <sup>3</sup>  | Acute effects systemic   |
| Consumers           | Inhalation        | 260 mg/m <sup>3</sup>  | Acute effects local      |
| Consumers           | Dermal            | 125 mg/kg bw/day       | Chronic effects systemic |
| Consumers           | Oral              | 12.5 mg/kg bw/day      | Chronic effects systemic |
| Workers             | Inhalation        | 221 mg/m <sup>3</sup>  | Chronic effects local    |
| Consumers           | Inhalation        | 65.3 mg/m <sup>3</sup> | Chronic effects local    |

### PNEC

#### 2-butoxyethanol

| Route of exposure                  | Value                                   |
|------------------------------------|-----------------------------------------|
| Freshwater environment             | 8.8 mg/l                                |
| Marine water                       | 0.88 mg/l                               |
| Water (intermittent release)       | 26.4 mg/l                               |
| Microorganisms in sewage treatment | 463 mg/l                                |
| Freshwater sediment                | 34.6 mg/kg of dry substance of sediment |
| Soil (agricultural)                | 2.33 mg/kg of dry substance of soil     |
| Sea sediments                      | 3.46 mg/kg of dry substance of sediment |
| Food chain                         | 20 mg/kg of food                        |



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| manganese neodecanoate             |                                           |
|------------------------------------|-------------------------------------------|
| Route of exposure                  | Value                                     |
| Freshwater environment             | 85.3 µg/l                                 |
| Marine water                       | 2.7 µg/l                                  |
| Microorganisms in sewage treatment | 121.3 mg/l                                |
| Freshwater sediment                | 0.076 mg/kg of dry substance of sediment  |
| Sea sediments                      | 0.0076 mg/kg of dry substance of sediment |
| Soil (agricultural)                | 167 mg/kg of dry substance of soil        |

| xylene ( mixture of isomers and ethylbenzene ) |                                          |
|------------------------------------------------|------------------------------------------|
| Route of exposure                              | Value                                    |
| Drinking water                                 | 0.327 mg/l                               |
| Marine water                                   | 0.327 mg/l                               |
| Water (intermittent release)                   | 0.327 mg/l                               |
| Microorganisms in sewage treatment             | 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      |

### 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 – nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (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.



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### Thermal hazard

Not available.

### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2. 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

In the Czech Republic: The monitoring procedure for the content of substances in workplace air and the specification of protective equipment is determined by the worker responsible for occupational safety and health protection of workers. Legal and natural persons doing business have the obligation to measure and control the values of concentrations of substances in the atmosphere of workplaces and to classify workplaces according to the categorization of work.

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                                                   | data not available                     |
| Odour                                                    | typical aromatic                       |
| Melting point/freezing point                             | data not available                     |
| Boiling point or initial boiling point and boiling range | data not available                     |
| xylene ( mixture of isomers and ethylbenzene )           | 137-143 °C                             |
| Flammability                                             | Flammable liquid.                      |
| Lower and upper explosion limit                          | data not available                     |
| xylene ( mixture of isomers and ethylbenzene )           | 1 %                                    |
|                                                          | 8 %                                    |
| Flash point                                              | >25 °C                                 |
| xylene ( mixture of isomers and ethylbenzene )           | 24-32 °C                               |
| Auto-ignition temperature                                | data not available                     |
| Decomposition temperature                                | data not available                     |
| pH                                                       | data not available                     |
| Kinematic viscosity                                      | >20.5 mm²/s at 40 °C                   |
| Solubility in water                                      | data not available                     |
| Partition coefficient n-octanol/water (log value)        | data not available                     |
| Vapour pressure                                          | data not available                     |
| Density and/or relative density                          |                                        |
| Density                                                  | 1.1-1.2 g/cm³ at 23 °C (EN ISO 2811-1) |
| Relative vapour density                                  | data not available                     |
| Particle characteristics                                 | data not available                     |

### 9.2. Other information

|                                                               |                        |
|---------------------------------------------------------------|------------------------|
| Content of organic solvents (VOC)                             | 0.23-0.25 kg/kg        |
| Total organic carbon (TOC)                                    | 0.20-0.22 kg/kg        |
| Solid content (dry matter)                                    | 55 % volume            |
| VOC limit value                                               | cat. A (d) SB: 300 g/l |
| Max. VOC content in the product in its ready to use condition | 299 g/l                |

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### 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 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.

#### Acute toxicity

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

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|------------------------------|-----------|--------|-------------|---------------|---------|-----|----------------------|
| Route of exposure            | Parameter | Method | Value       | Exposure time | Species | Sex | Value determination  |
| Oral                         | ATE       |        | 63136 mg/kg |               |         |     | Calculation of value |
| Dermal                       | ATE       |        | 57895 mg/kg |               |         |     | Calculation of value |
| Inhalation (vapor)           | ATE       |        | 148.6 mg/l  |               |         |     | Calculation of value |

| 2-butoxyethanol   |                  |        |               |               |                                        |     |                     |
|-------------------|------------------|--------|---------------|---------------|----------------------------------------|-----|---------------------|
| Route of exposure | Parameter        | Method | Value         | Exposure time | Species                                | Sex | Value determination |
| Dermal            | LD <sub>50</sub> |        | 435 mg/kg bw  |               | Rabbit                                 |     |                     |
| Inhalation        | LC <sub>50</sub> |        | 400 ppm       | 7 hours       | Guinea-pig (Cavia aperea f. porcellus) |     |                     |
| Oral              | LD <sub>50</sub> |        | 1414 mg/kg bw |               | Guinea-pig (Cavia aperea f. porcellus) |     |                     |
| Oral              | ATE              |        | 1200 mg/kg bw |               |                                        |     |                     |

according to Commission Regulation (EU) 2020/878 as amended

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### 2-butoxyethanol

| Route of exposure  | Parameter | Method | Value  | Exposure time | Species | Sex | Value determination |
|--------------------|-----------|--------|--------|---------------|---------|-----|---------------------|
| Inhalation (vapor) | ATE       |        | 3 mg/l |               |         |     |                     |

### Amines, coco alkyl, ethoxylated, compounds with polyethylene glycol monooleyl ether phosphate

| Route of exposure | Parameter        | Method | Value       | Exposure time | Species | Sex | Value determination |
|-------------------|------------------|--------|-------------|---------------|---------|-----|---------------------|
| Oral              | LD <sub>50</sub> |        | >2000 mg/kg |               | Rat     |     |                     |

### Cyclohexanamine, N,N-dimethyl-, compd. with .alpha.-isotride cyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) phosphate

| Route of exposure | Parameter        | Method | Value       | Exposure time | Species                 | Sex | Value determination |
|-------------------|------------------|--------|-------------|---------------|-------------------------|-----|---------------------|
| Oral              | LD <sub>50</sub> |        | >2500 mg/kg |               | Rat (Rattus norvegicus) |     |                     |

### Hydrocarbons, C10 – C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

| Route of exposure | Parameter        | Method   | Value                         | Exposure time | Species                 | Sex | Value determination |
|-------------------|------------------|----------|-------------------------------|---------------|-------------------------|-----|---------------------|
| Oral              | LD <sub>50</sub> | OECD 401 | >15000 mg/kg                  |               | Rat (Rattus norvegicus) |     |                     |
| Dermal            | LD <sub>50</sub> | OECD 402 | 3160-5000 mg/kg bw            |               | Rabbit                  |     |                     |
| Inhalation        | LC <sub>50</sub> |          | 6100 mg/m <sup>3</sup> of air | 4 hours       | Rat (Rattus norvegicus) |     |                     |

### hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Route of exposure | Parameter        | Method | Value                   | Exposure time | Species | Sex | Value determination |
|-------------------|------------------|--------|-------------------------|---------------|---------|-----|---------------------|
| Oral              | LD <sub>50</sub> |        | >5000 mg/kg             |               | Rat     |     |                     |
| Inhalation        | LC <sub>50</sub> |        | >5000 mg/m <sup>3</sup> | 4 hours       | Rat     |     |                     |
| Dermal            | LD <sub>50</sub> |        | >3160 mg/kg             |               | Rabbit  |     |                     |

### manganese neodecanoate

| Route of exposure | Parameter        | Method   | Value         | Exposure time | Species                 | Sex | Value determination |
|-------------------|------------------|----------|---------------|---------------|-------------------------|-----|---------------------|
| Oral              | LD <sub>50</sub> | OECD 401 | 2066 mg/kg bw |               | Rat (Rattus norvegicus) |     |                     |
| Dermal            | LD <sub>50</sub> | OECD 402 | 3640 mg/kg bw |               | Rat (Rattus norvegicus) |     |                     |

### xylene ( mixture of isomers and ethylbenzene )

| Route of exposure  | Parameter        | Method | Value          | Exposure time | Species                 | Sex | Value determination |
|--------------------|------------------|--------|----------------|---------------|-------------------------|-----|---------------------|
| Dermal             | LD <sub>50</sub> |        | >5000 mg/kg bw |               | Rabbit                  |     |                     |
| Inhalation (vapor) | LC <sub>50</sub> |        | 6350-6700 ppm  | 4 hours       | Rat (Rattus norvegicus) | M   |                     |

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| xylene ( mixture of isomers and ethylbenzene ) |                  |        |                |               |                         |     |                     |
|------------------------------------------------|------------------|--------|----------------|---------------|-------------------------|-----|---------------------|
| Route of exposure                              | Parameter        | Method | Value          | Exposure time | Species                 | Sex | Value determination |
| Oral                                           | LD <sub>50</sub> |        | >4000 mg/kg bw |               | Rat (Rattus norvegicus) | F   |                     |
| Oral                                           | LD <sub>50</sub> |        | 3523 mg/kg bw  |               | Rat (Rattus norvegicus) | M   |                     |

### Skin corrosion/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Serious eye damage/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Respiratory or skin sensitisation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Toxicity for specific target organ - single exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

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### 11.2. Information on other hazards

#### Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

#### Other information

not available

## SECTION 12: Ecological information

### 12.1. Toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

#### Acute toxicity

##### 2-butoxyethanol

| Parameter        | Method | Value     | Exposure time | Species                                 | Environment |
|------------------|--------|-----------|---------------|-----------------------------------------|-------------|
| LC <sub>50</sub> |        | 1474 mg/l | 96 hours      | Fish (Oncorhynchus mykiss)              |             |
| EC <sub>50</sub> |        | 1550 mg/l | 48 hours      | Daphnia (Daphnia magna)                 |             |
| EC <sub>50</sub> |        | 623 mg/l  | 72 hours      | Algae (Pseudokirchneriella subcapitata) |             |

##### Cyclohexanamine, N,N-dimethyl-, compd. with .alpha.-isotride cyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) phosphate

| Parameter        | Method | Value     | Exposure time | Species                    | Environment |
|------------------|--------|-----------|---------------|----------------------------|-------------|
| LC <sub>50</sub> |        | 1-10 mg/l | 96 hours      | Fish (Oncorhynchus mykiss) |             |

##### Hydrocarbons, C10 – C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

| Parameter        | Method   | Value      | Exposure time | Species                                                          | Environment |
|------------------|----------|------------|---------------|------------------------------------------------------------------|-------------|
| LL <sub>50</sub> | OECD 203 | >1000 mg/l | 96 hours      | Fish (Oncorhynchus mykiss)                                       |             |
| LL <sub>50</sub> | OECD 202 | >1000 mg/l | 48 hours      | Daphnia (Daphnia magna)                                          |             |
| EL <sub>50</sub> | OECD 201 | >1000 mg/l | 72 hours      | Algae and other aquatic plants (Pseudokirchneriella subcapitata) |             |
| EL <sub>50</sub> |          | >1000 mg/l | 48 hours      | Microorganisms (Tetrahymena pyriformis)                          |             |

##### hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Parameter        | Method | Value      | Exposure time | Species                    | Environment |
|------------------|--------|------------|---------------|----------------------------|-------------|
| LC <sub>50</sub> |        | >1000 mg/l | 96 hours      | Fish (Oncorhynchus mykiss) |             |

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### hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

| Parameter        | Method | Value      | Exposure time | Species                                 | Environment |
|------------------|--------|------------|---------------|-----------------------------------------|-------------|
| EL <sub>50</sub> |        | >1000 mg/l | 72 hours      | Algae (Pseudokirchneriella subcapitata) |             |
| EL <sub>50</sub> |        | >1000 mg/l | 48 hours      | Invertebrates (Daphnia magna)           |             |

### manganese neodecanoate

| Parameter        | Method   | Value      | Exposure time | Species                                     | Environment      |
|------------------|----------|------------|---------------|---------------------------------------------|------------------|
| EL <sub>50</sub> | OECD 202 | >1000 mg/l | 48 hours      | Daphnia (Daphnia magna)                     |                  |
| EL <sub>50</sub> | OECD 201 | >100 mg/l  | 72 hours      | Algae (Pseudokirchneriella subcapitata)     |                  |
| EC <sub>50</sub> | OECD 209 | >1000 mg/l | 3 hours       | Microorganisms (Photobacterium phosphoreum) | Activated sludge |

### xylene ( mixture of isomers and ethylbenzene )

| Parameter        | Method | Value    | Exposure time | Species                                 | Environment |
|------------------|--------|----------|---------------|-----------------------------------------|-------------|
| LC <sub>50</sub> |        | 2.6 mg/l | 96 hours      | Fish (Oncorhynchus mykiss)              |             |
| EC <sub>50</sub> |        | 1 mg/l   | 48 hours      | Daphnia (Daphnia magna)                 |             |
| LC <sub>50</sub> |        | 2.2 mg/l | 72 hours      | Algae (Pseudokirchneriella subcapitata) |             |

### Chronic toxicity

#### xylene ( mixture of isomers and ethylbenzene )

| Parameter | Value          | Exposure time | Species                            | Environment |
|-----------|----------------|---------------|------------------------------------|-------------|
| NOEC      | >1.3 mg/l      | 56 days       | Fish (Oncorhynchus mykiss)         |             |
| NOEC      | 0.96-1.17 mg/l | 7 days        | Invertebrates (Ceriodaphnia dubia) |             |

### 12.2. Persistence and degradability

Data for the mixture are not available.

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### Biodegradability

| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics |        |       |               |                  |               |
|----------------------------------------------------------------------|--------|-------|---------------|------------------|---------------|
| Parameter                                                            | Method | Value | Exposure time | Environment      | Result        |
|                                                                      |        | 80 %  | 28 days       | Activated sludge | Biodegradable |

| manganese neodecanoate |          |        |               |             |                      |
|------------------------|----------|--------|---------------|-------------|----------------------|
| Parameter              | Method   | Value  | Exposure time | Environment | Result               |
|                        | OECD 305 | <225 % | 28 days       |             | Easily biodegradable |

| xylene ( mixture of isomers and ethylbenzene ) |           |       |               |             |                      |
|------------------------------------------------|-----------|-------|---------------|-------------|----------------------|
| Parameter                                      | Method    | Value | Exposure time | Environment | Result               |
|                                                | OECD 301F | >90 % | 28 days       |             | Easily biodegradable |

### 12.3. Bioaccumulative potential

Data for the mixture are not available.

| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics |       |               |         |             |                  |
|----------------------------------------------------------------------|-------|---------------|---------|-------------|------------------|
| Parameter                                                            | Value | Exposure time | Species | Environment | Temperature [°C] |
| Log Pow                                                              | 5-6.7 |               |         |             |                  |

| xylene ( mixture of isomers and ethylbenzene ) |             |               |         |             |                  |
|------------------------------------------------|-------------|---------------|---------|-------------|------------------|
| Parameter                                      | Value       | Exposure time | Species | Environment | Temperature [°C] |
| BCF                                            | 25900 ml/kg |               |         |             |                  |
| Log Pow                                        | 3.12-3.2    |               |         |             |                  |

### 12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

| xylene ( mixture of isomers and ethylbenzene ) |        |
|------------------------------------------------|--------|
| Parameter                                      | Value  |
| Koc                                            | 48-129 |

### 12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

### 12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

### 12.7. Other adverse effects

Not available.



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### 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. 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

#### 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.

#### Additional information

Hazard identification No.

30

UN number

1263

Classification code

F1

Safety signs

3



Tunnel restriction code

(D/E)

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### 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 as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 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

|           |                                                                                        |
|-----------|----------------------------------------------------------------------------------------|
| EUH066    | Repeated exposure may cause skin dryness or cracking.                                  |
| H226      | Flammable liquid and vapour.                                                           |
| H302      | Harmful if swallowed.                                                                  |
| H304      | May be fatal if swallowed and enters airways.                                          |
| H312+H332 | Harmful in contact with skin or if inhaled.                                            |
| H315      | Causes skin irritation.                                                                |
| H319      | Causes serious eye irritation.                                                         |
| H331      | Toxic if inhaled.                                                                      |
| H335      | May cause respiratory irritation.                                                      |
| H336      | May cause drowsiness or dizziness.                                                     |
| H373      | May cause damage to organs through prolonged or repeated exposure.                     |
| H373      | May cause damage to the central nervous system through prolonged or repeated exposure. |
| H411      | Toxic to aquatic life with long lasting effects.                                       |

### Guidelines for safe handling used in the safety data sheet

|           |                                                                                                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| P102      | Keep out of reach of children.                                                                                                 |
| P210      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                 |
| P280      | Wear protective gloves/eye protection.                                                                                         |
| P403+P235 | Store in a well-ventilated place. Keep cool.                                                                                   |
| P501      | Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier. |

### 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.

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### Key to abbreviations and acronyms used in the safety data sheet

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| Acute Tox.          | Acute toxicity                                                                                    |
| ADR                 | Agreement concerning the international carriage of dangerous goods by road                        |
| Aquatic Chronic     | Hazardous to the aquatic environment (chronic)                                                    |
| Asp. Tox.           | Aspiration hazard                                                                                 |
| BCF                 | Bioconcentration Factor                                                                           |
| CAS                 | Chemical Abstracts Service                                                                        |
| CLP                 | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| EC                  | Identification code for each substance listed in EINECS                                           |
| EC <sub>50</sub>    | Concentration of a substance when it is affected 50 % of the population                           |
| EINECS              | European Inventory of Existing Commercial Chemical Substances                                     |
| EL <sub>50</sub>    | Effective Loading for 50 % of the tested organisms                                                |
| EmS                 | Emergency plan                                                                                    |
| EU                  | European Union                                                                                    |
| EuPCS               | European Product Categorisation System                                                            |
| Eye Irrit.          | Eye irritation                                                                                    |
| Flam. Liq.          | Flammable liquid                                                                                  |
| 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                                                            |
| IMO                 | International Maritime Organization                                                               |
| INCI                | International Nomenclature of Cosmetic Ingredients                                                |
| ISO                 | International Organization for Standardization                                                    |
| IUPAC               | International Union of Pure and Applied Chemistry                                                 |
| LC <sub>50</sub>    | Lethal concentration of a substance in which it can be expected death of 50% of the population    |
| LD <sub>50</sub>    | Lethal dose of a substance in which it can be expected death of 50% of the population             |
| LL <sub>50</sub>    | Lethal Loading for 50 % of tested organisms                                                       |
| log K <sub>ow</sub> | Octanol-water partition coefficient                                                               |
| NOEC                | No observed effect concentration                                                                  |
| OEL                 | Occupational Exposure Limits                                                                      |
| PBT                 | Persistent, bioaccumulative and toxic                                                             |
| PMT                 | Persistent, mobile and toxic                                                                      |
| ppm                 | Parts per million                                                                                 |
| REACH               | Registration, Evaluation, Authorisation and Restriction of Chemicals                              |
| RID                 | Agreement on the transport of dangerous goods by rail                                             |
| Skin Irrit.         | Skin irritation                                                                                   |
| STOT RE             | Specific target organ toxicity - repeated exposure                                                |
| STOT SE             | Specific target organ toxicity - single exposure                                                  |
| UN number           | 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                                                                        |

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vPvB Very persistent and very bioaccumulative

vPvM Very persistent and very mobile

### 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

not available

### 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 5.0 replaces the SDS version from Tuesday, 3 October 2023. Changes were made in sections 1, 2, 3, 11, 12, 13 and 16.

### 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.

## 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<br>(Partial contributing scenarios)                                                                         | Process category                                                                                                                                                                                        | Required additional measures to control<br>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><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><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. 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

|                                                 |                                                                                      |
|-------------------------------------------------|--------------------------------------------------------------------------------------|
| 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. 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                                                                           |



|                                                                                                                     |                                                                                |                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                     |                                                                                | 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.                                                                                                           |