

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

**A 1010 ASPHALT VARNISH**

|               |               |         |     |
|---------------|---------------|---------|-----|
| Creation date | 05. June 2019 | Version | 1.0 |
| Revision date |               |         |     |

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

- 1.1. Product identifier**  
Substance / mixture A 1010 ASPHALT VARNISH  
Other mixture names mixture  
Humidity barrier paint
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Mixture's intended use Varnish.  
Mixture uses advised against not available  
Exposure scenario is attached to the Safety Data Sheet.
- 1.3. Details of the supplier of the safety data sheet**
- Manufacturer**  
Name or trade name BARVY A LAKY TELURIA, s.r.o.  
Address č.p.1, Skrchov, 679 61  
Czech Republic  
Identification number (CRN) 43420371  
VAT Reg No CZ43420371  
Phone +420 516 474 211  
E-mail tel@teluria.cz  
Web address http://www.bal.cz
- Competent person responsible for the safety data sheet**  
Name BARVY A LAKY TELURIA, s.r.o.  
E-mail tel@teluria.cz
- 1.4. Emergency telephone number**  
National Health Service (NHS) 111  
National poisoning information centre Scotland, NHS 24: 111

**SECTION 2: Hazards identification****2.1. Substance or mixture classification****Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Flam. Liq. 3, H226  
STOT SE 3, H336  
STOT RE 1, H372  
Aquatic Chronic 2, H411

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

**Most serious adverse physico-chemical effects**

Flammable liquid and vapour.

**Most serious adverse effects on human health and the environment**

May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

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### 2.2. Label elements

#### Hazard pictogram



#### Signal word

Danger

#### Hazardous substances

hydrocarbons, C9 - C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

#### Hazard statements

|      |   |
|------|---|
| H226 | Flammable liquid and vapour.                                    |
| H336 | May cause drowsiness or dizziness.                              |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects.                |

#### 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.                               |
| P261      | Avoid breathing vapours.   |
| P273      | Avoid release to the environment.  |
| P280      | Wear protective gloves/protective clothing/eye protection.   |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P312      | Call a POISON CENTER if you feel unwell.   |
| P501      | Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste. |

#### Supplemental information

|   |   |  |
|---|---|--|
| EUH 066   | Repeated exposure may cause skin dryness or cracking. |  |
| Density   | 0.90 g/cm <sup>3</sup>                                |  |
| VOC   | 0.45 kg/kg  |  |
| TOC   | 0.39 kg/kg  |  |
| Dry matter  | 48 % volume   |  |
| VOC limit value   | cat. A (i) SB: 500 g/l                                |  |
| Max. VOC content in the product in its ready to use condition | 400 g/l   |  |

#### Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

### 2.3. Other hazards

Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Vapours have intoxicating and narcotic effect, causing headaches, eye irritation and respiratory tract irritation.

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of substances and additives specified below.

**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: 649-330-00-2<br>EC: 919-446-0<br>Registration number:<br>01-2119458049-33 | hydrocarbons, C9 - C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | 45                  | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H336<br>STOT RE 1, H372<br>Aquatic Chronic 2, H411<br>EUH 066 | 1, 2  |

##### Notes

- 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.
- 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/shower.

##### If in eyes

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

##### If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

#### If inhaled

Cough, headache. May cause drowsiness or dizziness.

#### If on skin

Not expected.

#### If in eyes

Not expected.

#### If swallowed

Irritation, nausea.

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

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

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

#### Unsuitable extinguishing media

Water - full jet.

### 5.2. Special hazards arising from the substance or mixture

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

### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

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

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

### 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.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

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**SECTION 7: Handling and storage****7.1. Precautions for safe handling****7.1.1. General health measures**

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

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

**7.1.2. Fire precautions**

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

**7.1.3. Environmental precautions**

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

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

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 substances hydrocarbons, C9 - C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%). 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**

none

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### DNEL

hydrocarbons, C9 - C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

| Workers / consumers | Route of exposure | Value                 | Effect                   | Determining method |
|---------------------|-------------------|-----------------------|--------------------------|--------------------|
| Workers             | Inhalation        | 330 mg/m <sup>3</sup> | Systemic chronic effects |                    |
| Workers             | Dermal            | 44 mg/kg bw/day       | Systemic chronic effects |                    |
| Consumers           | Inhalation        | 71 mg/m <sup>3</sup>  | Systemic chronic effects |                    |
| Consumers           | Dermal            | 26 mg/kg bw/day       | Systemic chronic effects |                    |
| Consumers           | Oral              | 26 mg/kg bw/day       | Systemic chronic effects |                    |

### 8.2. Exposure controls

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

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

#### Eye/face protection

Eye protection is not necessary under normal handling. When working with the risk of being exposed to liquid (solution), use protective goggles or face shield (based on the nature of the work performed).

#### Skin protection

Skin protection: Protective working clothes with antistatic finish, protective work 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.

#### Respiratory protection

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

#### Thermal hazard

Not available.

#### Environmental exposure controls

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

#### More information

Exposure scenario is attached to the Safety Data Sheet.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                      |
|---|----------------------|
| Appearance                              | liquid               |
| Physical state                          | liquid at 20°C       |
| color                                   | black                |
| Odour                                   | after solvents       |
| Odour threshold                         | data not available   |
| pH                                      | data not available   |
| Melting point/freezing point            | data not available   |
| Initial boiling point and boiling range | data not available   |
| Flash point                             | >30 °C (EN ISO 2719) |
| Evaporation rate                        | data not available   |
| Flammability (solid, gas)               | data not available   |



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### Acute toxicity

Based on available data the classification criteria are not met.

hydrocarbons, C9 - C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

| Route of exposure | Parameter        | Value       | Time of exposure | Species                          | Sex |
|-------------------|------------------|-------------|------------------|----------------------------------|-----|
| Oral              | LC <sub>50</sub> | >5000 mg/kg |                  | Rat ( <i>Rattus norvegicus</i> ) |     |
| Inhalation        | LC <sub>50</sub> | >13.1 mg/l  | 4 hour           | Rat ( <i>Rattus norvegicus</i> ) |     |
| Dermal            | LD <sub>50</sub> | 3160 mg/kg  |                  | Rabbit                           |     |

### Skin corrosion/irritation

Based on available data the classification criteria are not met.

### Serious eye damage/irritation

Based on available data the classification criteria are not met.

### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

### Carcinogenicity

Based on available data the classification criteria are not met.

### Reproductive toxicity

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

### Toxicity for specific target organ - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

### Aspiration hazard

Based on available data the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity



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### Acute toxicity

Toxic to aquatic life with long lasting effects.

hydrocarbons, C9 - C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

| Parameter        | Value       | Time of exposure | Species                                     | Environment |
|------------------|-------------|------------------|---|-------------|
| LC <sub>50</sub> | 10-30 mg/l  | 96 hour          | Fishes (Oncorhynchus mykiss)                |             |
| EC <sub>50</sub> | 12-22 mg/l  | 48 hour          | Invertebrates                               |             |
| EL <sub>50</sub> | 4.6-10 mg/l | 72 hour          | Algae (Selenastrum capricornutum)           |             |
| EL <sub>50</sub> | 43.98 mg/l  | 48 hour          | Microorganisms (Photobacterium phosphoreum) |             |

### 12.2. Persistence and degradability

Data not available.

### 12.3. Bioaccumulative potential

Not available.

### 12.4. Mobility in soil

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

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

### Waste management legislation

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

## SECTION 14: Transport information

### 14.1. UN number

UN 1263

### 14.2. UN proper shipping name

PAINT

### 14.3. Transport hazard class(es)

3 Flammable liquids

### 14.4. Packing group

III - substances presenting low danger

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**14.5. Environmental hazards**

The product is dangerous for the environment.

**14.6. Special precautions for user**

not available

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

Not classified.

**Additional information**

|                           |                                 |               |
|---------------------------|---------------------------------|---------------|
| Hazard identification No. | <b>30</b>                       | (Kemler Code) |
| UN number                 | <b>1263</b>                     |               |
| Classification code       | F1                              |               |
| Safety signs              | 3+hazardous for the environment |               |


**Air transport - ICAO/IATA**

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

**Marine transport - IMDG**

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

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

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

**15.2. Chemical safety assessment**

The chemical safety assessment has been carried out on hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%). The relevant exposure scenarios for the components are incorporated in the annex to the safety data sheet.

**SECTION 16: Other information**
**A list of standard risk phrases used in the safety data sheet**

|      |   |
|------|---|
| H226 | Flammable liquid and vapour.                                    |
| H304 | May be fatal if swallowed and enters airways.                   |
| H336 | May cause drowsiness or dizziness.                              |
| H372 | Causes damage to organs 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.   |
| P501 | Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste. |

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|           |  |
|-----------|--|
| P210      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261      | Avoid breathing vapours.   |
| P273      | Avoid release to the environment.  |
| P280      | Wear protective gloves/protective clothing/eye protection.                                     |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                     |
| P312      | Call a POISON CENTER if you feel unwell.   |

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

EUH 066 Repeated exposure may cause skin dryness or cracking.

### Other important information about human health protection

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

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

|                     |   |
|---------------------|---|
| ADR                 | European agreement concerning the international carriage of dangerous goods by road               |
| BCF                 | Bioconcentration Factor   |
| CAS                 | Chemical Abstracts Service  |
| CLP                 | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL                | Derived no-effect level   |
| EC                  | Identification code for each substance listed in EINECS   |
| EC <sub>50</sub>    | Concentration of a substance when it is affected 50% of the population                            |
| EINECS              | European Inventory of Existing Commercial Chemical Substances                                     |
| EmS                 | Emergency plan  |
| EU                  | European Union  |
| IATA                | International Air Transport Association   |
| IBC                 | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals       |
| IC <sub>50</sub>    | Concentration causing 50% blockade  |
| ICAO                | International Civil Aviation Organization   |
| IMDG                | International Maritime Dangerous Goods  |
| INCI                | International Nomenclature of Cosmetic Ingredients  |
| ISO                 | International Organization for Standardization  |
| IUPAC               | International Union of Pure and Applied Chemistry   |
| LC <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             |
| LOAEC               | Lowest observed adverse effect concentration  |
| LOAEL               | Lowest observed adverse effect level  |
| log K <sub>ow</sub> | Octanol-water partition coefficient   |
| MARPOL              | International Convention for the Prevention of Pollution From Ships                               |
| NOAEC               | No observed adverse effect concentration  |
| NOAEL               | No observed adverse effect level  |
| NOEC                | No observed effect concentration  |
| NOEL                | No observed effect level  |
| OEL                 | Occupational Exposure Limits  |
| PBT                 | Persistent, Bioaccumulative and Toxic   |
| PNEC                | Predicted no-effect concentration   |
| ppm                 | Parts per million   |
| REACH               | Registration, Evaluation, Authorisation and Restriction of Chemicals                              |
| RID                 | Agreement on the transport of dangerous goods by rail   |

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|      |   |
|------|---|
| UN   | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials  |
| VOC  | Volatile organic compounds  |
| vPvB | Very Persistent and very Bioaccumulative  |

|                 |  |
|-----------------|--|
| Aquatic Chronic | Hazardous to the aquatic environment               |
| Asp. Tox.       | Aspiration hazard                                  |
| Flam. Liq.      | Flammable liquid                                   |
| STOT RE         | Specific target organ toxicity - repeated exposure |
| STOT SE         | Specific target organ toxicity - single exposure   |

**Training guidelines**

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

**Recommended restrictions of use**

not available

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

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornyčková, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

**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 (Partial contributing scenarios)  | Process category  | Required additional measures to control worker exposure  |
|--|---|--|
| Pumping from/to containers and devices within a closed system with no possibility to release emission  | PROC 1 Use within closed production process   | Does not require further risk control measures.  |
| Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure               | PROC 8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities   | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).   |
| Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure               | PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities   | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).   |
| Mixing, blending, thinning of coating composition in open devices with possible exposure to volatile components of the coating composition           | PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels).   | Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).   |
| Application by spraying.   | PROC 7 Industrial spraying.   | Robotic spraying in closed chambers or closed cabs with laminar extraction. In course of spraying, enter the chambers only with self-contained respirator.<br><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).   |

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

#### Additional requirements to control environmental hazards

|                        |  |
|------------------------|--|
| 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.<br>Treat water contaminated by coat compounds and remove solid impurities and organic compounds by sedimentation, filtration, biological treatment processes or special processes developed for treatment of water contaminated by coating compositions before discharging to surface water.<br>When discharging the treated waste water, observe the contamination parameters specified for the involved facility by water management authority. |
| Disposal of waste      | Dispose of coat waste and materials contaminated by coat and its compounds in cooperation with authorised persons as of hazardous waste.<br>Dispose of solvent waste from tools and device cleaning as of hazardous waste.<br>Prevent release or discharge of any liquid waste to surface and ground water unless it is treated and coating composition compounds are removed.   |

## 2. Professional use

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

#### Basic conditions to control the hazard for workers:

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

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

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

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

#### Additional requirements to control environmental hazards

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