

| | S | 2160 HOSTAGRUN | NDR BLACKSM | ITH COAT |
|-------|--------------------------------------|-------------------------------|--------------------------|------------------------|
| reati | on date | 02nd May 2019 | | |
| evisi | on date | 01st December 2021 | Version | 2.0 |
| ЕСТ | ON 1: Identification | of the substance/mixture a | and of the company/ur | ndertaking |
| .1. | Product identifier | | • • | GRUND® BLACKSMITH COAT |
| | Substance / mixture | | mixture | |
| | UFI | | FKVV-M02Y-U00 | C-0KEM |
| | Other mixture names | | | |
| | Anticorrosive si | ngle coat blacksmith | | |
| 2. | Relevant identified | uses of the substance or m | nixture and uses advise | ed against |
| | Mixture's intended | use | | |
| | Varnish. | | | |
| | Main intended use | | | |
| | PC-PNT-3 | Paints/coatings - P | rotective and functional | |
| | Mixture uses advise not available | ed against | | |
| | Exposure scenario is a | attached to the Safety Data S | heet. | |
| з. | | ier of the safety data sheet | | |
| | Manufacturer | - | | |
| | Name or trade | name | BARVY A LAKY TI | ELURIA,s.r.o. |
| | Address | | č.p.1, Skrchov, 6 | 579 61 |
| | | | Czech Republic | |
| | Identification nu | ımber (CRN) | 43420371 | |
| | VAT Reg No | | CZ43420371 | |
| | Phone | | +420 516 474 2 | 11 |
| | E-mail | | tel@teluria.cz | |
| | Web address | | http://www.bal.c | CZ |
| | Competent person i | esponsible for the safety c | lata sheet | |
| | Name | | Ing. Štěpánka No | ováková |
| | E-mail | | stepanka.novako | ova@bal.cz |
| 4. | Emergency telepho | ne 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 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335, H336 STOT RE 2, H373 Aquatic Chronic 2, H411

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

Most serious adverse physico-chemical effects

Flammable liquid and vapour.

Most serious adverse effects on human health and the environment

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

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| | S | 2160 | HOSTAGRU | ND® BLACKSM | ΙΙΤΗ COAT | | |
|-------|---|-------------------------|----------------------|----------------------------|--|--|--|
| eat | ion date | | lay 2019 | • | | | |
| evisi | ion date | 01st D | ecember 2021 | Version | 2.0 | | |
| 2. | Label elements Hazard pictogram | | ¥ | We | | | |
| | Signal word Warning | | | | | | |
| | Hazardous substa hydrocarbons, C9, a xylene (mixture of | romatics | d ethylbenzene) | | | | |
| | Hazard statements | | | | | | |
| | H226 | | Flammable liquid | | | | |
| | H315 | Causes skin irritation. | | | | | |
| | H319 | | Causes serious ey | | | | |
| | H335 | | May cause respira | | | | |
| | H336 H373 | | May cause drowsi | | anged or repeated eveneurs | | |
| | Н373 Н411 | | | e with long lasting effect | onged or repeated exposure. | | |
| | Precautionary stat | tomonto | | e with long lasting effect | 5. | | |
| | P101 | lements | If medical advice i | is needed have product (| container or label at hand. | | |
| | P102 | | Keep out of reach | | | | |
| | P210 | | | | , open flames and other ignition sources | | |
| | P260 | | Do not breathe va | pours. | | | |
| | P271 | | Use only outdoors | or in a well-ventilated an | rea. | | |
| | P273 | | Avoid release to the | | | | |
| | P280 | | | loves/eye protection. | | | |
| | P333+P313 | | | rash occurs: Get medica | | | |
| | P501 | | | | ance with local regulations by handing vaste or a site designated by the town. | | |
| | | | | | vaste of a site designated by the town. | | |

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| according to Regulation (EC) No 1907/2006 (REACH) as amended | | | | | | | |
|--|--------------------------------------|-----------------------------|----------------------|--|--|--|--|
| | S 2160 HOSTAGRUND | ® BLACKSM | ITH COAT | | | | |
| Creation date | 02nd May 2019 | | | | | | |
| Revision date | 01st December 2021 | Version | 2.0 | | | | |
| Density | | 1,32 g/cm ³ at 2 | 3 °C (EN ISO 2811-1) | | | | |
| VOC | | 0,37 kg/kg | | | | | |
| тос | | 0,32 kg/kg | | | | | |
| Dry matter | | 44 % volume | | | | | |
| VOC limit value | | cat. A (i) SB: 50 | 10 g/l | | | | |
| Max. VOC conten condition | t in the product in its ready to use | 499 g/l | | | | | |

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

2.3. **Other hazards**

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances and additives specified below.

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

| Identification numbers | bers Substance name | | Classification according to Regulation (EC) No 1272/2008 | Note |
|--|---|--|---|------|
| Index: 649-356-00-4 EC: 918-668-5 Registration number: 01-2119455851-35 | hydrocarbons, C9, aromatics | 19-20 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH066 | 2, 5 |
| EC: 905-562-9 Registration number: 01-2119555267-33 | xylene (mixture of isomers and ethylbenzene) | 10-12 Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Specific concentration limit: Acute Tox. 4, H312+H332: C ≥ 12,5 % | | 1, 4 |
| CAS: 34590-94-8 EC: 252-104-2 Registration number: 01-2119450011-60 | (2-methoxymethylethoxy)propanol | 4 | | 4 |
| Index: 030-011-00-6 CAS: 7779-90-0 EC: 231-944-3 Registration number: 01-21194850-44-40- 0001 | trizinc bis(orthophosphate) | 3 | Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) | |

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|--|--|--------------------------|----|------------------------|--|------|
| | S 2160 | HOSTAGRUND® | В | LACKSM | IITH COAT | |
| Creation date Revision date | | 1ay 2019 ecember 2021 | Ve | rsion | 2.0 | |
| Identification numbers | | Substance name | | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
| Index: 013-002-00-1 CAS: 7429-90-5 EC: 231-072-3 Registration number: 01-2119529243-45 | aluminium p | owder (stabilised) | | <2 | Flam. Sol. 1, H228 Water-react. 2, H261 | 3 |
| Index: 649-330-00-2 EC: 919-446-0 Registration number: 01-2119458049-33 | hydrocarbons, C9 - C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | 0,9 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 STOT RE 1, H372 (central nervous system) Aquatic Chronic 2, H411 EUH066 | 2, 5 |
| Index: 030-013-00-7 CAS: 1314-13-2 EC: 215-222-5 Registration number: 01-2119463881-32 | zinc oxide | | | 0,5 | Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) | |

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

Notes

1 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.

- 2 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.
- 3 Note T: This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.
- 4 Substance with a Union workplace exposure limit.
- 5 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.

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If on skin

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

If in eyes

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

If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

If inhaled

Cough, headache. May cause respiratory irritation. May cause drowsiness or dizziness.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

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.

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| 6.2. Environmen | tal precautions | | | | | |

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

Precautions for safe handling 7.1.

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 nonsparking 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 (eq acids or pool chemicals).

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| Creation date | 02nd May 20 |)19 | | | | | |
| Revision date | 01st Decemb | per 2021 | Version | 2.0 | | | |
| Content | | Packaging type | | Material of package | | | |
| 375 ml | | can / tin | | FE | | | |
| 0,61 | | can / tin | | FE | | | |
| 2,5 | | can / tin | | FE | | | |
| 4 | | can / tin | | FE | | | |

C) No 1907/2006 (PEACH) . . .

Storage class

91

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

FE

Storage temperature

min 5 °C, max 25 °C

The specific requirements or rules relating to the substance/mixture

can / tin

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 indiviual 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) | Туре | Value | Note |
| | OEL 8 hours | 221 mg/m ³ | |
| | OEL 8 hours | 50 ppm | |
| xylenes | OEL 15 minutes | 442 mg/m ³ | Skin |
| | OEL 15 minutes | 100 ppm | |
| (2-methoxymethylethoxy)propanol (CAS: 34590- | OEL 8 hours | 308 mg/m ³ | Skin |
| 94-8) | OEL 8 hours | 50 ppm | 3611 |

DNEL

(2-methoxymethylethoxy)propanol

| Workers / consumers | Route of exposure | Value | Effect | Determining method |
|---------------------|-------------------|------------------------|--------------------------|--------------------|
| Workers | Inhalation | 308 mg/m ³ | Systemic chronic effects | |
| Workers | Dermal | 283 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 37.2 mg/m ³ | Systemic chronic effects | |
| Consumers | Dermal | 121 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Oral | 36 mg/kg bw/day | Systemic chronic effects | |

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| hydrocarbons, C9 - C1 | | | | |
| Workers / consumers | Douto of | Value | Effect | Determining metho |
| Workers | Inhalation | 330 mg/m ³ | Systemic chronic effects | |
| Workers | Dermal | 44 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 71 mg/m ³ | Systemic chronic effects | |
| Consumers | Dermal | 26 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Oral | 26 mg/kg bw/day | Systemic chronic effects | |
| hydrocarbons, C9, arc | matics | | | • |
| Workers / consumers | Route of exposure | Value | Effect | Determining metho |
| Workers | Inhalation | 150 mg/kg | Systemic chronic effects | |
| Workers | Dermal | 25 mg/kg | Systemic chronic effects | |
| Consumers | Inhalation | 32 mg/kg | Systemic chronic effects | |
| Consumers | Dermal | 11 mg/kg | Systemic chronic effects | |
| Consumers | Oral | 11 mg/kg | Systemic chronic effects | |
| trizinc bis(orthophosp | hate) | | | |
| Workers / consumers | Route of exposure | Value | Effect | Determining metho |
| Workers | Inhalation | 5 mg/kg | Systemic chronic effects | |
| Workers | Dermal | 83 mg/kg | Systemic chronic effects | |
| Consumers | Inhalation | 2.5 mg/kg | Systemic chronic effects | |
| Consumers | Dermal | 83 mg/kg | Systemic chronic effects | |
| Consumers | Oral | 0.83 mg/kg | Systemic chronic effects | |
| xylene (mixture of iso | omers and ethylt | penzene) | | |
| Workers / consumers | Route of exposure | Value | Effect | Determining metho |
| Workers | Inhalation | 77 mg/m ³ | Systemic chronic effects | |
| Workers | Inhalation | 289 mg/m ³ | Systemic acute effects | |
| Workers | Inhalation | 289 mg/m ³ | Local acute effects | |
| Workers | Dermal | 180 mg/kg bw/day | Systemic chronic effects | |
| Consumers | Inhalation | 14.8 mg/m ³ | Systemic chronic effects | |
| Consumers | Inhalation | 174 mg/m ³ | Systemic acute effects | |
| Consumers | Inhalation | 174 mg/m ³ | Local acute effects | |
| Consumers | Dermal | 108 mg/kg bw/day | Systemic chronic effects | |
| | | 1.6 mg/kg | Systemic chronic effects | |



| according to Regulation (EC) No 1907/2006 (REACH) as amended | | | | | | |
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| S 2 | 160 HOST | AGRUND | B BLACKSMITH C | ΟΑΤ | | |
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| zinc oxide | | | | | | |
| Workers / consumers | Route of exposure | Value | Effect | | Determining method | |
| Workers | Inhalation | 5 mg/m ³ | Systemic chronic effects | | | |
| Workers | Dermal | 83 mg/kg bw/day | Systemic chronic effects | | | |
| Workers | Inhalation | 0.5 mg/m ³ | Local chronic effects | | | |
| Consumers | Inhalation | 2.5 mg/m ³ | Systemic chronic effects | | | |
| Consumers | Dermal | 83 mg/kg bw/day | Systemic chronic effects | | | |
| Consumers | Oral | 0.83 mg/kg bw/day | Systemic chronic effects | | | |

PNEC

(2-methoxymethylethoxy)propanol

| Route of exposure | Value | Determining method | | | |
|--|--|--------------------|--|--|--|
| Freshwater environment | 19 mg/l | | | | |
| Seawater | 1.9 mg/l | | | | |
| Freshwater sediment | 70.2 mg/kg of dry substance of sediment | | | | |
| Sea sediments | 7.02 mg/kg of dry substance of sediment | | | | |
| Soil (agricultural) | 2.74 mg/kg of dry substance of soil | | | | |
| Microorganisms in wastewater treatment plants | 4168 mg/l | | | | |
| Water (intermittent release) | 190 mg/l | | | | |
| trizinc bis(orthophosphate) | | | | | |
| Route of exposure | Value | Determining method | | | |
| Freshwater environment | 0.0206 mg/l | | | | |
| Seawater | 0.0061 mg/l | | | | |
| Microorganisms in wastewater treatment plants | 0.1 mg/l | | | | |
| Freshwater sediment | 117.8 mg/kg of dry substance of sediment | | | | |
| Sea sediments | 56.5 mg/kg of dry substance of sediment | | | | |
| Soil (agricultural) | 35.6 mg/kg of dry substance of soil | | | | |
| xylene (mixture of isomers and | ethylbenzene) | | | | |
| Route of exposure | Value | Determining method | | | |
| Drinking water | 0.327 mg/l | | | | |
| Seawater | 0.327 mg/l | | | | |
| Water (intermittent release) | 0.327 mg/l | | | | |



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| | ember 2021 Versior | 1 2.0 |
| xylene (mixture of isomers and | ethylbenzene) | |
| Route of exposure | Value | Determining method |
| Microorganisms in wastewater treatment plants | 6.58 mg/l | |
| Freshwater sediment | 12.46 mg/kg of dry substance of sediment | |
| Sea sediments | 12.46 mg/kg of dry substance of sediment | |
| Soil (agricultural) | 2.31 mg/kg of dry substance of soil | |
| zinc oxide | | |
| Route of exposure | Value | Determining method |
| Freshwater environment | 20.6 µg/l | |
| Seawater | 6.1 µg/l | |
| Soil (agricultural) | 35.6 mg/kg of dry substance of soil | |
| Microorganisms in wastewater treatment plants | 100 µg/l | |
| Freshwater sediment | 117.8 mg/kg of dry substance of sediment | |
| Sea sediments | 56.5 mg/kg of dry substance of | |

8.2. Exposure controls

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

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

Eye/face protection

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

sediment

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.



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| | Respiratory protection | |
| | Don't breathe vapours. For short-time exposure | or low concentration, use respirator with organic vapour and du |
| | Thermal hazard | on and long-term exposure, self-contained respirator is necessary. |
| | Not available. | |
| | Environmental exposure controls | |
| | Observe usual measures for protection of the env | ironment see Section 6.2. Collect spillage |
| | More information | nonment, see Section 0.2. concer spinage. |
| | Exposure scenario is attached to the Safety Data | Sheet |
| | | |
| SECT | ION 9: Physical and chemical properties | |
| 9.1. | Information on basic physical and chemical | properties |
| | Physical state | liquid |
| | Colour | black |
| | Odour | typical aromatic |
| | Melting point/freezing point | data not available |
| | Boiling point or initial boiling point and boiling rar | |
| | Flammability | Flammable liquid and vapour. |
| | Lower and upper explosion limit | data not available |
| | Flash point | >25 °C (EN ISO 2719) data not available |
| | Auto-ignition temperature Decomposition temperature | data not available |
| | pH | non-soluble (in water) |
| | Kinematic viscosity | >20,5 mm ² /s at 40 °C |
| | Solubility in water | not available |
| | Solubility in fats | not available |
| | Partition coefficient n-octanol/water (log value) | data not available |
| | Vapour pressure | data not available |
| | Density and/or relative density | |
| | Density | 1,32 g/cm³ at 23 °C (EN ISO 2811-1) |
| | Form | liquid: viscous |
|).2. | Other information | |
| | Evaporation rate | not available |
| | Oxidising properties | The product has no oxidizing properties. |
| | Explosive properties | Vapours mixed up with air can be explosive. |
| | Ignition temperature | >400 °C (EN ISO 14522) |
| | Content of organic solvents (VOC) | 0,37 kg/kg |
| | Total organic carbon (TOC) | 0,32 kg/kg |
| | Solid content (dry matter) | 44 % volume |
| | VOC limit value | cat. A (i) SB: 500 g/l |
| | Max. VOC content in the product in its ready to us condition | se 499 g/l |

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 stable under normal conditions.

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| | | accordin | g to Regulation (EC) | No 1907/2006 (REACH) | as amended | |
|---------|---|---|-----------------------|------------------------|---|-------------------|
| | | S 2160 | HOSTAGRUN | ID® BLACKSM | ITH COAT | |
| Creatio | on date | 02nd M | lay 2019 | | | |
| Revisio | n date | 01st D | ecember 2021 | Version | 2.0 | |
| 10.3. | Possibility o | f hazardous rea | ctions | | | |
| 10.4. | mixture with over long dist Conditions t | air. Vapours are h tances. t o avoid | eavier than air, accu | mulate near the ground | mable liquid. Vapours may and below ground, and th ct against flames, sparks, | e fire can spread |
| | 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

In terms of health effects, the mixture has not been tested as a whole; the data are adopted from Safety Data Sheets of raw material suppliers. Data that are not specified are currently not available.

Acute toxicity

Based on available data the classification criteria are not met.

(2-methoxymethylethoxy)propanol

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|-----------|------------|---------------------|---------|-----|
| Oral | LD50 | 5135 mg/kg | | Rat | |

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

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|-----------|-------------|------------------|----------------------------|-----|
| Oral | LC50 | >5000 mg/kg | | Rat (Rattus norvegicus) | |
| Inhalation | LC50 | >13.1 mg/l | 4 hour | Rat (Rattus norvegicus) | |
| Dermal | LD50 | 3160 mg/kg | | Rabbit | |

hydrocarbons, C9, aromatics

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|-----------|------------------------|------------------|----------------------------|-----|
| Oral | LD50 | 3492 mg/kg | | Rat (Rattus norvegicus) | |
| Dermal | LD50 | 3160 mg/kg | | Rabbit | |
| Inhalation | LC50 | 6193 mg/m ³ | 4 hour | Rat (Rattus norvegicus) | |

trizinc bis(orthophosphate)

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



| according to Regulation (EC) No 1907/2006 (REACH) as amended | | | | |
|--|--|---|---|--|
| S 2160 HOSTAGRUN | D® BLACKSM | ITH COAT | | |
| 02nd May 2019 | | | | |
| 01st December 2021 | Version | 2.0 | | |
| • | S 2160 HOSTAGRUN 02nd May 2019 | S 2160 HOSTAGRUND® BLACKSM 02nd May 2019 | S 2160 HOSTAGRUND® BLACKSMITH COAT 02nd May 2019 | |

xylene (mixture of isomers and ethylbenzene)

| Route of exposure | Parameter | Value | Time of exposure | Species | Sex |
|-------------------|-----------|----------------|------------------|----------------------------|-----|
| Oral | LD50 | 3523 mg/kg bw | | Rat (Rattus norvegicus) | М |
| Inhalation | LC50 | 6350-6700 ppm | 4 hour | Rat (Rattus norvegicus) | |
| Dermal | LD50 | >5000 mg/kg | | Rabbit | |
| Oral | LD50 | >4000 mg/kg bw | | Rat (Rattus norvegicus) | F |
| | ATE | 1100 mg/kg | | Rabbit | |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

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 respiratory irritation. May cause drowsiness or dizziness.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

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. Based on available data the classification criteria are not met.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

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| | according to Regulation (EC) | No 1907/2006 (REACH) | as amended | |
|---------------|------------------------------|----------------------|------------|--|
| | S 2160 HOSTAGRUM | ND® BLACKSM | ITH COAT | |
| Creation date | 02nd May 2019 | | | |
| Revision date | 01st December 2021 | Version | 2.0 | |

Acute toxicity

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

(2-methoxymethylethoxy)propanol

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|-------------|------------------|---------------------------------|-------------|
| LC50 | >10000 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| EC₅o | 1919 mg/l | 48 hour | Daphnia (Daphnia magna) | |

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

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|-------------|------------------|---|-------------|
| LC50 | 10-30 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |
| EC50 | 12-22 mg/l | 48 hour | Invertebrates | |
| EL 50 | 4.6-10 mg/l | 72 hour | Algae (Selenastrum capricornutum) | |
| EL 50 | 43.98 mg/l | 48 hour | Microorganisms (Photobacterium phosphoreum) | |

hydrocarbons, C9, aromatics

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|----------|--------------------------------------|--------------------------------------|-------------|
| LC50 | 9.2 mg/l | 96 hour Fishes (Oncorhynchus mykiss) | | |
| EC50 | 3.2 mg/l | 8 hour Daphnia (Daphnia magna) | | |
| EC50 | 2.9 mg/l | 72 hour | Algae (Selenastrum capricornutum) | |

trizinc bis(orthophosphate)

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|----------------|---|--------------------------------|-------------|
| LC50 | 0.3-5.59 mg/l | .3-5.59 mg/l 96 hour Fishes (Oncorhynchus mykiss) | | |
| LC50 | 0.89-0.96 mg/l | 48 hour | Crustaceans | |
| EC50 | 0.29-0.32 mg/l | 72 hour | Algae and other aquatic plants | |

xylene (mixture of isomers and ethylbenzene)

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|----------|------------------|---------------------------------|-------------|
| LC50 | 2.6 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | |

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| according to Regulation (EC) No 1907/2006 (REACH) as amended | | | | |
|--|--------------------|---------|---------|--|
| | S 2160 HOSTAGRUND® | BLACKSM | TH COAT | |
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xylene (mixture of isomers and ethylbenzene)

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|-----------|------------------|---|-------------|
| IC50 | 1 mg/l | 24 hour | Daphnia (Daphnia magna) | |
| EC50 | 4.36 mg/l | 73 hour | Algae (Pseudokirchneriella subcapitata) | |

zinc oxide

| Parameter | Value | Time of exposure | Species | Environment |
|-----------|------------|------------------|--------------------------------------|-------------|
| EC₅o | 0.17 mg/kg | 72 hour | Algae (Selenastrum capricornutum) | |

Chronic toxicity

xylene (mixture of isomers and ethylbenzene)

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

12.2. Persistence and degradability Data for mixture not available.

12.3. Bioaccumulative potential

xylene (mixture of isomers and ethylbenzene)

| Parameter | Value | Time of exposure | Species | | Surrounding temperature [°C] | |
|-----------|----------|------------------|---------|--|------------------------------------|--|
| BCF | 6-23 | | | | | |
| Log Pow | 3.15-3.2 | | | | | |
| | | | | | | |

Data for mixture not available.

12.4. Mobility in soil

xylene (mixture of isomers and ethylbenzene)

| Parameter | Value | Environment | Surrounding temperature |
|-----------|--------|-------------|-------------------------|
| Кос | 48-540 | | |

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

12.5. Results of PBT and vPvB assessment

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| 1 | | | | |
|---------------|--------------------|-------------|----------|--|
| S | 2160 HOSTAGRUN | ND® BLACKSM | ΙΤΗ COAT | |
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12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Waste management legislation

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

Waste type code

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

Packaging waste type code

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

(*) - 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)
 - Flammable liquids 3

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

The product is dangerous for the environment.

14.6. Special precautions for user

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

Maritime transport in bulk according to IMO instruments 14.7. Not classified.



| | according | g to Regulation (E | EC) No 190 | 7/2006 (REACH) | as amended | |
|-------------------|------------------|--------------------|------------|-------------------|------------|--|
| | S 2160 | HOSTAGR | UND® | BLACKSM | ITH COAT | |
| Creation date | 02nd M | lay 2019 | | | | |
| Revision date | 01st De | ecember 2021 | | Version | 2.0 | |
| Additional infor | mation | | | | | |
| Hazard ident | tification No. | | 30 | | | |
| UN number | | | 1263 | | | |
| Classification | n code | | F1 | | | |
| Safety signs | | | 3+haza | rdous for the env | vironment | |
| | | | | | 7 | |
| Air transport - 1 | ICAO/IATA | | | | | |
| | structions page | - | 355 | | | |
| | ging instruction | ons | 366 | | | |
| Marine transpo | | | | _ | | |
| EmS (emerg | jency plan) | | F-E, S-I | = | | |
| 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

Chemical safety assessment was carried out on substances xylene, hydrocarbons, C9, aromatics, hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics, (2-methoxymethylethoxy)propanol. The respective exposure scenarios are incorporated in Annex of this Safety Data Sheet.

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet H226 Flammable liquid and vapour.

| H226 | Flammable liquid and vapour. |
|------|---|
| H228 | Flammable solid. |
| H261 | In contact with water releases flammable gases. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H372 | Causes damage to the central nervous system through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| | |

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| | 5 2160 HOSTAGRUND® BLACKSMITH COAT | |
|--------------------|--|---------|
| Creation date | 02nd May 2019 | |
| Revision date | 01st December 2021 Version 2.0 | |
| H411 | Toxic to aquatic life with long lasting effects. | |
| H312+H332 | Harmful in contact with skin or if inhaled. | |
| Guidelines for s | fe handling used in the safety data sheet | |
| P101 | If medical advice is needed, have product container or label at hand. | |
| P102 | Keep out of reach of children. | |
| P271 | Use only outdoors or in a well-ventilated area. | |
| P501 | Dispose of contents/container to in accordance with local regulations by handir over to a person authorized to dispose of waste or a site designated by the tow | |
| P260 | Do not breathe vapours. | |
| P280 | Wear protective gloves/eye protection. | |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. | |
| P273 | Avoid release to the environment. | |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sou No smoking. | rces. |
| A list of addition | al standard phrases used in the safety data sheet | |
| EUH066 | Repeated exposure may cause skin dryness or cracking. | |
| | information about human health protection | |
| as per the Section | not be - unless specifically approved by the manufacturer/importer - used for purposes oth 1. The user is responsible for adherence to all related health protection regulations. ions and acronyms used in the safety data sheet | er thai |
| ADR | European agreement concerning the international carriage of dangerous goods road | by |
| 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 | |
| EC₅o | Concentration of a substance when it is affected 50% of the population | |
| EINECS | European Inventory of Existing Commercial Chemical Substances | |
| ELso | Effective Loading for 50% of the tested organisms | |
| EmS | Emergency plan | |
| ES | Identification code for each substance listed in EINECS | |
| EU | European Union | |
| EuPCS | European Product Categorisation System | |
| IATA | International Air Transport Association | |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals | |
| IC 5 0 | 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 | |
| LC50 | Lethal concentration of a substance in which it can be expected death of 50% of population | of the |
| LD50 | Lethal dose of a substance in which it can be expected death of 50% of the population | |
| log Kow | Octanol-water partition coefficient | |
| log Kow MARPOL | International Convention for the Prevention of Pollution from Ships | |

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| S 2 | 160 HOSTAGRUM | ID® BLACKSM | ITH COAT |
|--|--|----------------------------|--|
| Creation date | 02nd May 2019 | | |
| levision date | 01st December 2021 | Version | 2.0 |
| NOEC | No observed effect | concentration | |
| OEL | Occupational Expos | ure Limits | |
| PBT | Persistent, Bioaccu | mulative and Toxic | |
| PNEC | Predicted no-effect | concentration | |
| ppm | Parts per million | | |
| REACH | Registration, Evalu | ation, Authorisation and | Restriction of Chemicals |
| RID | Agreement on the | ransport of dangerous g | goods by rail |
| UN | Four-figure identific Model Regulations | ation number of the sub | ostance or article taken from the UN |
| UVCB | Substances of unkr biological materials | | ition, complex reaction products or |
| VOC | Volatile organic cor | npounds | |
| vPvB | Very Persistent and | l very Bioaccumulative | |
| Acute Tox. | Acute toxicity | | |
| Aquatic Acute | Hazardous to the a | quatic environment | |
| Aquatic Chronic | | quatic environment (chr | onic) |
| Asp. Tox. | Aspiration hazard | | |
| Eye Irrit. | Eye irritation | | |
| Flam. Liq. | Flammable liquid | | |
| Flam. Sol. | Flammable solid | | |
| Skin Irrit. | Skin irritation | | |
| STOT RE | Specific target orga | in toxicity - repeated ex | posure |
| STOT SE | Specific target orga | in toxicity - single expos | sure |
| Water-react. | Substance or mixtu | ire which in contact with | water emits flammable gas |
| Training guidelines | | | |
| Inform the personnel a ways of handling the p | | s of use, mandatory pro | otective equipment, first aid and prohil |

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

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. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

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

Version 2.0 replaces version of 02.05.2019. Overall revision of SDS according to Commission Regulation (EU) 2020/878.

More information

Reference to Section 3.2, Substance Note T: The substance incorporated in the compound solution has no physical hazard properties.

Statement

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

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Annex to the Product Safety Data Sheet - EXPOSURE SCENARIO

1. Industrial use

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

Basic conditions to control the hazard for workers:

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

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

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

| 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 e | posure 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 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 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 (3-5 air exchanges per hour). Outdoor: secure catch dripping paint Indoor: local air extraction at potential emission release or good ventilation (5 - 10 air exchanges per hour). Outdoor: does not require further risk control |
| 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). | measures Indoor: local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour). Outdoor: working process a maximum of 4h per day does not require further risk control measures or use respiratory protection with filter type A. |
| Application by spraying. | PROC 11 Non industrial spraying. | Indoor: do spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory |

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

Additional requirements to control environmental hazards

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