

## C2000 NITROCELLULOSE primer CELOX PRIMER

|               |                  |         |     |
|---------------|------------------|---------|-----|
| Creation date | 06th August 2019 | Version | 2.0 |
| Revision date | 29th June 2021   |         |     |

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

- 1.1. Product identifier**  
 Substance / mixture C2000 NITROCELLULOSE primer CELOX PRIMER  
 Number C2000-A-: C0100, C0110, C0199, C0840  
 UFI 8ED8-U5T2-V001-MPDT  
 Other mixture names C2000 NITROCELULÓZOVÁ základní barva CELOX PRIMER
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
 CELOX PRIMER C2000 is a basic paint intended for coating ferrous metals, including galvanized (including new) and is suitable for top nitrocellulose and acrylic combination paints, especially for indoor use.  
**Mixture uses advised against**  
 The product should not be used in ways other than those referred in Section 1.  
**Main intended use**  
 PC-PNT-3 Paints/coatings - Protective and functional
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
 Name or trade name COLORLAK, a.s.  
 Address Tovární 1076, Staré Město, 686 03  
 Czech Republic  
 Identification number (CRN) 49444964  
 VAT Reg No CZ49444964  
 Phone +420 572527111  
 E-mail colorlak@colorlak.cz  
 Web address www.colorlak.cz
- Competent person responsible for the safety data sheet**  
 Name Ing. Veronika Chytilová  
 E-mail chytilova@colorlak.cz
- 1.4. Emergency telephone number**  
 European emergency number: 112

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
 The mixture is classified as dangerous.
- Flam. Liq. 3, H226  
 STOT SE 3, H336  
 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. Toxic to aquatic life with long lasting effects.

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



**Signal word**  
 Warning

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### Hazardous substances

n-butyl acetate  
Hydrocarbons, C9, aromatic  
trizinc bis(orthophosphate)

### Hazard statements

H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P370+P378 In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.  
P391 Collect spillage.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town.

### Supplemental information

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.  
EUH066 Repeated exposure may cause skin dryness or cracking.  
Density 1,45-1,56 g/cm<sup>3</sup> at 23 °C (ČSN EN ISO 2811-1)  
VOC 0,320 kg/kg  
TOC 0,311 kg/kg  
Dry matter 60 % volume  
VOC limit value cat. A (i) SB: 500 g/l  
Max. VOC content in the product in its ready to use condition 484 g/l

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

CELOX PRIMER C2000 is a dispersion of inorganic pigments and fillers in organic solvents with the addition of synthetic resins and plasticizers. 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: 607-025-00-1<br>CAS: 123-86-4<br>EC: 204-658-1<br>Registration number: 01-2119485493-29 | n-butyl acetate | 15-17               | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066          | 4    |

|                                                                                                                                            |  |                             |  |                                                                                                                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------|--|------------------------------------------------------------------------------------------------------------------------|--|
| <br>Responsible Care®<br>OUR COMMITMENT TO SUSTAINABILITY |  | <b>SAFETY DATA SHEET</b>    |  | <br>COLORLAK<br>barvy, které vydrží |  |
| according to Regulation (EC) No 1907/2006 (REACH) as amended                                                                               |  |                             |  |                                                                                                                        |  |
| <b>C2000 NITROCELLULOSE primer CELOX PRIMER</b>                                                                                            |  |                             |  |                                                                                                                        |  |
| Creation date                                                                                                                              |  | 06th August 2019            |  | Version                                                                                                                |  |
| Revision date                                                                                                                              |  | 29th June 2021              |  | 2.0                                                                                                                    |  |
| Identification numbers                                                                                                                     |  | Substance name              |  | Content in % weight                                                                                                    |  |
| EC: 918-668-5<br>Registration number:<br>01-2119455851-35                                                                                  |  | Hydrocarbons, C9, aromatic  |  | 14-16                                                                                                                  |  |
| CAS: 14807-96-6<br>EC: 238-877-9                                                                                                           |  | talca (Mg3H2(SiO3)4)        |  | 11-13                                                                                                                  |  |
| Index: 022-006-00-2<br>CAS: 13463-67-7<br>EC: 236-675-5<br>Registration number:<br>01-2119489379-17                                        |  | titanium dioxide            |  | ≤9,8                                                                                                                   |  |
| CAS: 1317-61-9<br>EC: 215-277-5<br>Registration number:<br>01-2119457646-28                                                                |  | triiron tetraoxide          |  | ≤9,8                                                                                                                   |  |
| CAS: 1309-37-1<br>EC: 215-168-2<br>Registration number:<br>01-2119457614-35-0000                                                           |  | diiron trioxide             |  | ≤9,7                                                                                                                   |  |
| Index: 030-011-00-6<br>CAS: 7779-90-0<br>EC: 231-944-3<br>Registration number:<br>01-2119485044-40-XXXX                                    |  | trizinc bis(orthophosphate) |  | 4-5                                                                                                                    |  |
| CAS: 64742-16-1<br>EC: 265-116-8<br>Registration number:<br>01-2119510128-50                                                               |  | Petroleum resins            |  | 1-3                                                                                                                    |  |
| Index: 030-013-00-7<br>CAS: 1314-13-2<br>EC: 215-222-5<br>Registration number:<br>01-2119463881-32                                         |  | zinc oxide                  |  | ≤0,12                                                                                                                  |  |
|                                                                                                                                            |  |                             |  | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>STOT SE 3, H335, H336<br>Aquatic Chronic 2, H411<br>EUH066                  |  |
|                                                                                                                                            |  |                             |  | not classified as dangerous                                                                                            |  |
|                                                                                                                                            |  |                             |  | Carc. 2, H351 (inhalation)                                                                                             |  |
|                                                                                                                                            |  |                             |  |                                                                                                                        |  |
|                                                                                                                                            |  |                             |  | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)                                                           |  |
|                                                                                                                                            |  |                             |  | Aquatic Chronic 4, H413                                                                                                |  |
|                                                                                                                                            |  |                             |  | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1)                                                           |  |

### Notes

- Note V: If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.
- Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.  
  
This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.
- Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.
- Substance with a Union workplace exposure limit.
- Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

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

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

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

##### If inhaled

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

##### If on skin

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

##### 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.

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

##### If inhaled

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

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

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols.

#### 6.2. Environmental precautions

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

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### 6.3. Methods and material for containment and cleaning up

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

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. No smoking. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Avoid release to the environment.

### 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 +5-25 °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)

not available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

#### European Union

#### Commission Directive 2000/39/EC

| Substance name (component)      | Type           | Value                 |
|---------------------------------|----------------|-----------------------|
| n-butyl acetate (CAS: 123-86-4) | OEL 8 hours    | 241 mg/m <sup>3</sup> |
|                                 | OEL 8 hours    | 50 ppm                |
|                                 | OEL 15 minutes | 723 mg/m <sup>3</sup> |
|                                 | OEL 15 minutes | 150 ppm               |

#### DNEL

Hydrocarbons, C9, aromatic

| Workers / consumers | Route of exposure | Value                 | Effect                   | Determining method | Source |
|---------------------|-------------------|-----------------------|--------------------------|--------------------|--------|
| Workers             | Inhalation        | 150 mg/m <sup>3</sup> | Systemic chronic effects |                    | echa   |
| Workers             | Dermal            | 25 mg/kg bw/day       | Systemic chronic effects |                    | echa   |
| Consumers           | Inhalation        | 32 mg/m <sup>3</sup>  | Systemic chronic effects |                    | echa   |
| Consumers           | Dermal            | 11 mg/kg bw/day       | Systemic chronic effects |                    | echa   |
| Consumers           | Oral              | 11 mg/kg bw/day       | Systemic chronic effects |                    | echa   |

# SAFETY DATA SHEET

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

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n-butyl acetate

| Workers / consumers | Route of exposure | Value                  | Effect                   | Determining method | Source        |
|---------------------|-------------------|------------------------|--------------------------|--------------------|---------------|
| Workers             | Inhalation        | 600 mg/m <sup>3</sup>  | Local acute effects      |                    | BL dodavatele |
| Consumers           | Inhalation        | 300 mg/m <sup>3</sup>  | Local acute effects      |                    | BL dodavatele |
| Workers             | Inhalation        | 300 mg/m <sup>3</sup>  | Local chronic effects    |                    | BL dodavatele |
| Consumers           | Inhalation        | 35.7 mg/m <sup>3</sup> | Local chronic effects    |                    | BL dodavatele |
| Workers             | Dermal            | 11 mg/kg               | Systemic chronic effects |                    | BL dodavatele |
| Workers             | Dermal            | 11 mg/kg               | Systemic acute effects   |                    | BL dodavatele |
| Consumers           | Dermal            | 6 mg/kg                | Systemic chronic effects |                    | BL dodavatele |
| Consumers           | Dermal            | 6 mg/kg                | Systemic acute effects   |                    | BL dodavatele |
| Consumers           | Oral              | 2 mg/kg                | Systemic chronic effects |                    | BL dodavatele |
| Consumers           | Oral              | 2 mg/kg                | Systemic acute effects   |                    | BL dodavatele |

Petroleum resins

| Workers / consumers | Route of exposure | Value           | Effect | Determining method | Source        |
|---------------------|-------------------|-----------------|--------|--------------------|---------------|
| Consumers           | Oral              | 19 mg/kg bw/day |        |                    | BL dodavatele |

titanium dioxide

| Workers / consumers | Route of exposure | Value                | Effect                | Determining method | Source        |
|---------------------|-------------------|----------------------|-----------------------|--------------------|---------------|
|                     | Inhalation        | 10 mg/m <sup>3</sup> | Local chronic effects |                    | BL dodavatele |

triiron tetraoxide

| Workers / consumers | Route of exposure | Value    | Effect              | Determining method | Source        |
|---------------------|-------------------|----------|---------------------|--------------------|---------------|
| Workers             | Inhalation        | 10 mg/kg | Local acute effects |                    | BL dodavatele |

trizinc bis(orthophosphate)

| Workers / consumers | Route of exposure | Value                 | Effect                   | Determining method | Source        |
|---------------------|-------------------|-----------------------|--------------------------|--------------------|---------------|
| Workers             | Inhalation        | 5 mg/m <sup>3</sup>   | Systemic chronic effects |                    | BL dodavatele |
| Workers             | Dermal            | 83 mg/kg bw/day       | Systemic chronic effects |                    | BL dodavatele |
| Consumers           | Inhalation        | 2.5 mg/m <sup>3</sup> | Systemic chronic effects |                    | BL dodavatele |
| Consumers           | Dermal            | 83 mg/kg bw/day       | Systemic chronic effects |                    | BL dodavatele |
| Consumers           | Oral              | 0.83 mg/kg bw/day     | Systemic chronic effects |                    | BL dodavatele |

zinc oxide

| Workers / consumers | Route of exposure | Value                 | Effect                   | Determining method | Source        |
|---------------------|-------------------|-----------------------|--------------------------|--------------------|---------------|
| Workers             | Inhalation        | 5 mg/m <sup>3</sup>   | Systemic chronic effects |                    | BL dodavatele |
| Workers             | Dermal            | 83 mg/kg bw/day       | Systemic chronic effects |                    | BL dodavatele |
| Consumers           | Inhalation        | 2.5 mg/m <sup>3</sup> | Systemic chronic effects |                    | BL dodavatele |
| Consumers           | Dermal            | 83 mg/kg bw/day       | Systemic chronic effects |                    | BL dodavatele |
| Consumers           | Oral              | 830 µg/kg             | Systemic chronic effects |                    | BL dodavatele |
| Workers             | Inhalation        | 0.5 mg/m <sup>3</sup> | Local chronic effects    |                    | BL dodavatele |

PNEC

n-butyl acetate

| Route of exposure      | Value      | Determining method |
|------------------------|------------|--------------------|
| Freshwater environment | 0.18 mg/l  |                    |
| Seawater               | 0.018 mg/l |                    |

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n-butyl acetate

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

titanium dioxide

| Route of exposure                             | Value      | Determining method |
|-----------------------------------------------|------------|--------------------|
| Freshwater environment                        | 0.127 mg/l |                    |
| Seawater                                      | 1 mg/l     |                    |
| Water (intermittent release)                  | 0.61 mg/l  |                    |
| Freshwater sediment                           | 1000 mg/kg |                    |
| Sea sediments                                 | 100 mg/kg  |                    |
| Soil (agricultural)                           | 100 mg/kg  |                    |
| Microorganisms in wastewater treatment plants | 100 mg/l   |                    |
| Food chain                                    | 1667 mg/kg |                    |

trizinc bis(orthophosphate)

| Route of exposure                             | Value                                    | Determining method |
|-----------------------------------------------|------------------------------------------|--------------------|
| Freshwater environment                        | 20.6 µg/l                                |                    |
| Seawater                                      | 6.1 µg/l                                 |                    |
| 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 sediment  |                    |
| Soil (agricultural)                           | 35.6 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                                 |                    |
| 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 sediment  |                    |
| Soil (agricultural)                           | 35.6 mg/kg of dry substance of soil      |                    |

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

It is not needed.

#### Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

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### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

### Thermal hazard

Not available.

### Environmental exposure controls

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

## SECTION 9: Physical and chemical properties

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

|                                                                                                                                                                            |                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Physical state                                                                                                                                                             | liquid                                                                                            |
| Colour                                                                                                                                                                     | mixture containing generic product identifier 'colorant' (select all relevant colours), by shades |
| Odour                                                                                                                                                                      | after organic solvents                                                                            |
| Melting point/freezing point                                                                                                                                               | data not available                                                                                |
| barium sulfate (CAS: 7727-43-7)                                                                                                                                            | 1600 °C (BL dodavatele)                                                                           |
| diiron trioxide (CAS: 1309-37-1)                                                                                                                                           | >1000 °C (BL dodavatele)                                                                          |
| Hydrocarbons, C9, aromatic                                                                                                                                                 | <-30 °C (BL dodavatele)                                                                           |
| n-butyl acetate (CAS: 123-86-4)                                                                                                                                            | -78 °C (BL dodavatele)                                                                            |
| Reaction mass of Octadecanamide, 12-hydroxy-N-[2-(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanedylbis- | 117-127 °C (BL dodavatele)                                                                        |
| talc (Mg3H2(SiO3)4) (CAS: 14807-96-6)                                                                                                                                      | >1300 °C (BL dodavatele)                                                                          |
| titanium dioxide (CAS: 13463-67-7)                                                                                                                                         | >1560 °C (BL dodavatele)                                                                          |
| triiron tetraoxide (CAS: 1317-61-9)                                                                                                                                        | >1000 °C (BL dodavatele)                                                                          |
| Trimethylolpropane total dust (CAS: 77-99-6)                                                                                                                               | 58 °C (BL dodavatele)                                                                             |
| trizinc bis(orthophosphate) (CAS: 7779-90-0)                                                                                                                               | 912 °C (BL dodavatele)                                                                            |
| zinc oxide (CAS: 1314-13-2)                                                                                                                                                | >1000 °C (BL dodavatele)                                                                          |
| Boiling point or initial boiling point and boiling range                                                                                                                   | data not available                                                                                |
| calcium carbonate (CAS: 471-34-1)                                                                                                                                          | 1300 °C (BL dodavatele)                                                                           |
| Hydrocarbons, C9, aromatic                                                                                                                                                 | 140-200 °C (BL dodavatele)                                                                        |
| n-butyl acetate (CAS: 123-86-4)                                                                                                                                            | 124-126,5 °C (BL dodavatele)                                                                      |
| Reaction mass of Octadecanamide, 12-hydroxy-N-[2-(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanedylbis- | >250 °C (BL dodavatele)                                                                           |
| titanium dioxide (CAS: 13463-67-7)                                                                                                                                         | 3000 °C (BL dodavatele)                                                                           |
| Trimethylolpropane total dust (CAS: 77-99-6)                                                                                                                               | 302 °C (BL dodavatele)                                                                            |
| Flammability                                                                                                                                                               | Flammable liquid of risk class II (ČSN 65 0201)                                                   |
| n-butyl acetate (CAS: 123-86-4)                                                                                                                                            | hořlavý (odvozeno od bodu vzplanutí)                                                              |
| trizinc bis(orthophosphate) (CAS: 7779-90-0)                                                                                                                               | Produkt není hořlavý. nehořlavý (BL dodavatele)                                                   |
| Lower and upper explosion limit                                                                                                                                            |                                                                                                   |
| bottom                                                                                                                                                                     | 0,7 % (for Hydrocarbons, C9, aromatic)                                                            |
| Hydrocarbons, C9, aromatic                                                                                                                                                 | 0,7 % (BL dodavatele)                                                                             |
| n-butyl acetate (CAS: 123-86-4)                                                                                                                                            | 1,2 % (literatura)                                                                                |
| Trimethylolpropane total dust (CAS: 77-99-6)                                                                                                                               | 1,4 % (BL dodavatele)                                                                             |
| upper                                                                                                                                                                      | 7,6 % (for n-butyl acetate)                                                                       |
| Hydrocarbons, C9, aromatic                                                                                                                                                 | 7 % (BL dodavatele)                                                                               |
| n-butyl acetate (CAS: 123-86-4)                                                                                                                                            | 7,6 % (literatura)                                                                                |
| Trimethylolpropane total dust (CAS: 77-99-6)                                                                                                                               | 7,5 % (BL dodavatele)                                                                             |
| Flash point                                                                                                                                                                | >23 °C (PND 67 3015)                                                                              |
| Hydrocarbons, C9, aromatic                                                                                                                                                 | >35 °C (BL dodavatele)                                                                            |
| n-butyl acetate (CAS: 123-86-4)                                                                                                                                            | 27 °C (BL dodavatele)                                                                             |
| Petroleum resins (CAS: 64742-16-1)                                                                                                                                         | 260 °C (BL dodavatele)                                                                            |
| Trimethylolpropane total dust (CAS: 77-99-6)                                                                                                                               | 174 °C (BL dodavatele)                                                                            |
| Auto-ignition temperature                                                                                                                                                  | data not available                                                                                |

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|               |                  |         |     |
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|                                                                                                                                                                             |                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Hydrocarbons, C9, aromatic                                                                                                                                                  | >400 °C (BL dodavatele)                                  |
| n-butyl acetate (CAS: 123-86-4)                                                                                                                                             | 415 °C (BL dodavatele)                                   |
| Petroleum resins (CAS: 64742-16-1)                                                                                                                                          | 640 °C (BL dodavatele)                                   |
| Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanedylbis- | >400 °C (BL dodavatele)                                  |
| Trimethylolpropane total dust (CAS: 77-99-6)                                                                                                                                | 414 °C (BL dodavatele)                                   |
| Decomposition temperature                                                                                                                                                   | data not available                                       |
| Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanedylbis- | >250 °C (BL dodavatele)                                  |
| talca (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) (CAS: 14807-96-6)                                                                                  | >1000 °C (BL dodavatele)                                 |
| pH                                                                                                                                                                          | non-soluble (in water)                                   |
| calcium carbonate (CAS: 471-34-1)                                                                                                                                           | 9-10 (undiluted) (BL dodavatele)                         |
| diiron trioxide (CAS: 1309-37-1)                                                                                                                                            | 5-8 (5% solution) (BL dodavatele)                        |
| talca (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) (CAS: 14807-96-6)                                                                                  | 9-9,5 (10% solution) (BL dodavatele)                     |
| triiron tetraoxide (CAS: 1317-61-9)                                                                                                                                         | 4-8 (5% solution) (BL dodavatele)                        |
| trizinc bis(orthophosphate) (CAS: 7779-90-0)                                                                                                                                | 6-8 (10% solution) (BL dodavatele)                       |
| zinc oxide (CAS: 1314-13-2)                                                                                                                                                 | 6,72-6,75 (undiluted at 20 °C) (BL dodavatele)           |
| Kinematic viscosity                                                                                                                                                         | >20,5 mm <sup>2</sup> /s at 40 °C                        |
| Kinematic viscosity                                                                                                                                                         | data not available                                       |
| n-butyl acetate (CAS: 123-86-4)                                                                                                                                             | 0,83 mm <sup>2</sup> /s at 20 °C (BL dodavatele)         |
| Solubility in water                                                                                                                                                         | not miscible                                             |
| barium sulfate (CAS: 7727-43-7)                                                                                                                                             | 3,1 mg/l (BL dodavatele)                                 |
| n-butyl acetate (CAS: 123-86-4)                                                                                                                                             | 5,3 g/l při 20 °C (pH 6) (BL dodavatele)                 |
| Petroleum resins (CAS: 64742-16-1)                                                                                                                                          | nerozpustný (BL dodavatele)                              |
| Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanedylbis- | 0,021 mg/l (BL dodavatele)                               |
| titanium dioxide (CAS: 13463-67-7)                                                                                                                                          | <1 µg/L v rozmezí pH 6 až 8 (BL dodavatele)              |
| triiron tetraoxide (CAS: 1317-61-9)                                                                                                                                         | nerozpustný (BL dodavatele)                              |
| Trimethylolpropane total dust (CAS: 77-99-6)                                                                                                                                | >1000 g/l (BL dodavatele)                                |
| trizinc bis(orthophosphate) (CAS: 7779-90-0)                                                                                                                                | <0,01 % (nerozpustný) (BL dodavatele)                    |
| zinc oxide (CAS: 1314-13-2)                                                                                                                                                 | 2,9 mg/l (BL dodavatele)                                 |
| Partition coefficient n-octanol/water (log value)                                                                                                                           | 2,1 till 6 (for the substances contained)                |
| Vapour pressure                                                                                                                                                             | <10 - 11,6 hPa at 20 °C (for the substances contained)   |
| Hydrocarbons, C9, aromatic                                                                                                                                                  | <1 kPa at 20 °C (BL dodavatele)                          |
| n-butyl acetate (CAS: 123-86-4)                                                                                                                                             | 11,6 hPa at 20 °C (BL dodavatele)                        |
| Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanedylbis- | 0,00004 Pa at 25 °C (BL dodavatele)                      |
| Trimethylolpropane total dust (CAS: 77-99-6)                                                                                                                                | 0,01 Pa (BL dodavatele)                                  |
| trizinc bis(orthophosphate) (CAS: 7779-90-0)                                                                                                                                | <1 hPa (BL dodavatele)                                   |
| Density and/or relative density                                                                                                                                             |                                                          |
| Density                                                                                                                                                                     | 1,45-1,56 g/cm <sup>3</sup> at 23 °C (ČSN EN ISO 2811-1) |
| barium sulfate (CAS: 7727-43-7)                                                                                                                                             | 4,49 g/cm <sup>3</sup> at 20 °C (BL dodavatele)          |
| Hydrocarbons, C9, aromatic                                                                                                                                                  | 0,801-0,951 g/cm <sup>3</sup> at 15 °C (BL dodavatele)   |
| n-butyl acetate (CAS: 123-86-4)                                                                                                                                             | 0,8812 g/cm <sup>3</sup> at 20 °C (BL dodavatele)        |
| Petroleum resins (CAS: 64742-16-1)                                                                                                                                          | 1,06 g/cm <sup>3</sup> at 20 °C (BL dodavatele)          |
| Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanedylbis- | 0,929 g/cm <sup>3</sup> at 20 °C (BL dodavatele)         |
| talca (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> ) (CAS: 14807-96-6)                                                                                  | 2,58-2,83 g/cm <sup>3</sup> (BL dodavatele)              |

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|                                              |                                                              |
|----------------------------------------------|--------------------------------------------------------------|
| titanium dioxide (CAS: 13463-67-7)           | 4 g/cm <sup>3</sup> at 20 °C (BL dodavatele)                 |
| triiron tetraoxide (CAS: 1317-61-9)          | 4,7 g/cm <sup>3</sup> at 20 °C (BL dodavatele)               |
| Trimethylolpropane total dust (CAS: 77-99-6) | 1,12 g/cm <sup>3</sup> (BL dodavatele)                       |
| trizinc bis(orthophosphate) (CAS: 7779-90-0) | 3,3-3,7 g/cm <sup>3</sup> (BL dodavatele)                    |
| zinc oxide (CAS: 1314-13-2)                  | 5,68 g/cm <sup>3</sup> at 22 °C (BL dodavatele)              |
| Form                                         | liquid, viscous liquid without foreign mechanical impurities |

### 9.2. Other information

|                                                               |                               |
|---------------------------------------------------------------|-------------------------------|
| Ignition temperature                                          | >300 °C (ČSN EN 14522)        |
| Combustion temperature                                        | >23 °C (ČSN EN ISO 2592)      |
| Vapour density                                                | > 1 (air = 1)                 |
| Molar weight                                                  | data not available            |
| barium sulfate (CAS: 7727-43-7)                               | 233,39 g/mol (BL dodavatele)  |
| Hydrocarbons, C9, aromatic                                    | 125 g/mol (BL dodavatele)     |
| Content of organic solvents (VOC)                             | 0,320 kg/kg (calculation)     |
| Total organic carbon (TOC)                                    | 0,311 kg/kg (calculation)     |
| Solid content (dry matter)                                    | 60 % volume (ČSN EN ISO 3251) |
| VOC limit value                                               | cat. A (i) SB: 500 g/l        |
| Max. VOC content in the product in its ready to use condition | 484 g/l (calculation)         |
| Flammability - temperature class: T2 (PND 33 0371)            |                               |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

not available

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

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

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

#### Acute toxicity

Based on available data the classification criteria are not met.

diiron trioxide

| Route of exposure | Parameter | Method | Value       | Time of exposure | Species | Sex | Source         |
|-------------------|-----------|--------|-------------|------------------|---------|-----|----------------|
| Oral              | LD50      |        | >5000 mg/kg |                  | Rat     |     | BL dodavatel e |

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### Hydrocarbons, C9, aromatic

| Route of exposure | Parameter | Method | Value         | Time of exposure | Species                 | Sex | Source |
|-------------------|-----------|--------|---------------|------------------|-------------------------|-----|--------|
| Oral              | LD50      |        | 4-8 ml/kg bw  |                  | Rat (Rattus norvegicus) |     | echa   |
| Dermal            | LD50      |        | 3160 mg/kg bw |                  | Rabbit                  |     | echa   |

### n-butyl acetate

| Route of exposure | Parameter | Method   | Value        | Time of exposure | Species                 | Sex | Source         |
|-------------------|-----------|----------|--------------|------------------|-------------------------|-----|----------------|
| Oral              | LD50      |          | 10736 mg/kg  |                  | Rat (Rattus norvegicus) |     | BL dodavatel e |
| Inhalation        | LC50      | OECD 403 | >21.1 mg/l   | 4 hour           | Rat (Rattus norvegicus) |     | BL dodavatel e |
| Dermal            | LD50      |          | >14000 mg/kg |                  | Rabbit                  |     | BL dodavatel e |
| Inhalation        | LC 0      |          | >38.32 mg/l  | 6 hour           | Rat (Rattus norvegicus) |     | BL dodavatel e |

### Petroleum resins

| Route of exposure | Parameter | Method | Value       | Time of exposure | Species | Sex | Source         |
|-------------------|-----------|--------|-------------|------------------|---------|-----|----------------|
| Dermal            | LD50      |        | >2000 mg/kg |                  | Rabbit  |     | BL dodavatel e |
| Oral              | LD50      |        | >5000 mg/kg |                  | Rat     |     | BL dodavatel e |

### titanium dioxide

| Route of exposure | Parameter | Method | Value             | Time of exposure | Species | Sex | Source         |
|-------------------|-----------|--------|-------------------|------------------|---------|-----|----------------|
| Oral              | LD50      |        | >5000 mg/kg       |                  |         |     | BL dodavatel e |
| Inhalation        | LC50      |        | >6.82 mg/l of air |                  |         |     | BL dodavatel e |

### triiron tetraoxide

| Route of exposure | Parameter | Method | Value       | Time of exposure | Species | Sex | Source         |
|-------------------|-----------|--------|-------------|------------------|---------|-----|----------------|
| Oral              | LD50      |        | >5000 mg/kg |                  | Rat     |     | BL dodavatel e |

### trizinc bis(orthophosphate)

| Route of exposure | Parameter | Method | Value              | Time of exposure | Species | Sex | Source         |
|-------------------|-----------|--------|--------------------|------------------|---------|-----|----------------|
| Oral              | LD50      |        | >5000 mg/kg bw/day |                  | Rat     |     | BL dodavatel e |
| Inhalation        | LC50      |        | >5.7 mg/l          | 4 hour           | Rat     |     | BL dodavatel e |

|                                                                                   |                                                                                                                                      |                                                                                     |
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zinc oxide

| Route of exposure     | Parameter | Method | Value          | Time of exposure | Species                 | Sex | Source         |
|-----------------------|-----------|--------|----------------|------------------|-------------------------|-----|----------------|
| Oral                  | LD50      |        | >5000 mg/kg    |                  | Rat (Rattus norvegicus) |     | BL dodavatel e |
| Inhalation (aerosols) | LC50      |        | >5.7 mg/l      | 4 hour           | Rat (Rattus norvegicus) |     | BL dodavatel e |
| Dermal                | LD50      |        | >2000 mg/kg bw |                  | Rat (Rattus norvegicus) |     | BL dodavatel e |

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

| Route of exposure | Result | Time of exposure | Species | Source  |
|-------------------|--------|------------------|---------|---------|
|                   |        | 3 day            | Human   | výrobce |

#### 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

Based on available data the classification criteria are not met.

#### Repeated dose toxicity

Hydrocarbons, C9, aromatic

| Route of exposure | Parameter | Result | Value                             | Time of exposure | Species                 | Sex | Source |
|-------------------|-----------|--------|-----------------------------------|------------------|-------------------------|-----|--------|
| Oral              | NOAEL     |        | 600 mg/kg bw/day                  |                  | Rat (Rattus norvegicus) |     | echa   |
| Inhalation        | NOAEC     |        | 900-1800 mg/m <sup>3</sup> of air |                  | Rat (Rattus norvegicus) |     | echa   |

|                                                                                   |  |                                                                                                |  |                                                                                     |  |
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Petroleum resins

| Route of exposure | Parameter | Result | Value      | Time of exposure | Species | Sex | Source        |
|-------------------|-----------|--------|------------|------------------|---------|-----|---------------|
| Dermal            | NOAEL     |        | >494 mg/kg | 7 dnů v týdnu    | Rabbit  |     | BL dodavatele |

trizinc bis(orthophosphate)

| Route of exposure | Parameter | Result | Value              | Time of exposure | Species | Sex | Source |
|-------------------|-----------|--------|--------------------|------------------|---------|-----|--------|
| Oral              | NOAEL     |        | 31.52 mg/kg bw/day |                  | Rat     |     | echa   |

zinc oxide

| Route of exposure | Parameter | Result | Value                        | Time of exposure | Species                 | Sex | Source |
|-------------------|-----------|--------|------------------------------|------------------|-------------------------|-----|--------|
| Oral              | NOAEL     |        | 31.52 mg/kg bw/day           |                  | Rat (Rattus norvegicus) |     | echa   |
| Inhalation        | NOAEL     |        | 1.5 mg/m <sup>3</sup> of air |                  | Rat (Rattus norvegicus) |     | echa   |
| Dermal            | LOAEL     |        | 75 mg/kg bw/day              |                  | Rat (Rattus norvegicus) |     | echa   |

### Aspiration hazard

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

#### Acute toxicity

Toxic to aquatic life with long lasting effects.

diiron trioxide

| Parameter | Method | Value      | Time of exposure | Species                 | Environment | Source        |
|-----------|--------|------------|------------------|-------------------------|-------------|---------------|
| LC50      |        | >1000 mg/l | 48 hour          | Fishes (Leuciscus idus) |             | BL dodavatele |

Hydrocarbons, C9, aromatic

| Parameter | Method | Value          | Time of exposure | Species                                     | Environment | Source |
|-----------|--------|----------------|------------------|---------------------------------------------|-------------|--------|
| LL 50     |        | 5.491-9.2 mg/l | 96 hour          | Fishes (Oncorhynchus mykiss)                |             | echa   |
| EL 50     |        | 3.2-9.586 mg/l | 48 hour          | Aquatic invertebrates                       |             | echa   |
| EC50      |        | 290-420 µg/l   | 72 hour          | Algae and other aquatic plants              |             | echa   |
| EC50      |        | 99 mg/l        | 10 min           | Microorganisms (Photobacterium phosphoreum) |             | echa   |

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### n-butyl acetate

| Parameter | Method   | Value       | Time of exposure | Species                                                          | Environment | Source         |
|-----------|----------|-------------|------------------|------------------------------------------------------------------|-------------|----------------|
| LC50      |          | 18 mg/l     | 96 hour          | Fishes (Pimephales promelas)                                     |             | BL dodavatel e |
| EC50      |          | 44 mg/l     | 48 hour          | Aquatic invertebrates (Daphnia sp.)                              |             | BL dodavatel e |
| EC50      |          | 397 mg/l    | 72 hour          | Algae and other aquatic plants (Pseudokirchneriella subcapitata) |             | BL dodavatel e |
| EC50      |          | 356 mg/l    | 40 hour          | Microorganisms (Tetrahymena pyriformis)                          |             | BL dodavatel e |
| EC50      | OECD 208 | >1000 mg/kg | 14 day           | Algae (Selenastrum capricornutum)                                |             | BL dodavatel e |

### Petroleum resins

| Parameter | Method | Value    | Time of exposure | Species                          | Environment | Source         |
|-----------|--------|----------|------------------|----------------------------------|-------------|----------------|
| NOEL      |        | 1 mg/l   | 72 hour          | Algae (Raphidocelis subcapitata) |             | BL dodavatel e |
| NOEL      |        | 0.3 mg/l | 48 hour          | Daphnia (Daphnia magna)          |             | BL dodavatel e |
| NOEL      |        | 2 mg/l   | 96 hour          | Fishes (Oncorhynchus mykiss)     |             | BL dodavatel e |

### talco (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

| Parameter | Method | Value           | Time of exposure | Species                           | Environment | Source  |
|-----------|--------|-----------------|------------------|-----------------------------------|-------------|---------|
| LC50      |        | >100000 mg/l    | 24 hour          | Fishes (Oncorhynchus mykiss)      |             | výrobce |
| LC50      |        | 94983.781 mg/kg | 48 hour          | Crustaceans                       |             | výrobce |
| LC50      |        | 48545.539 mg/l  |                  | Algae (Selenastrum capricornutum) |             | výrobce |

### titanium dioxide

| Parameter | Method   | Value      | Time of exposure | Species                      | Environment | Source         |
|-----------|----------|------------|------------------|------------------------------|-------------|----------------|
| LC50      |          | >100 mg/l  | 96 hour          | Fishes (Oncorhynchus mykiss) | Freshwater  | BL dodavatel e |
| LC50      |          | >1000 mg/l | 96 hour          | Fishes (Pimephales promelas) | Freshwater  | BL dodavatel e |
| LC50      | OECD 202 | >100 mg/l  | 48 hour          | Daphnia (Daphnia magna)      | Freshwater  | BL dodavatel e |

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### triiron tetraoxide

| Parameter | Method              | Value       | Time of exposure | Species                      | Environment | Source         |
|-----------|---------------------|-------------|------------------|------------------------------|-------------|----------------|
| EC0       | EU C.2 (84/449/EEC) | >10000 mg/l | 48 hour          | Daphnia (Daphnia magna)      |             | BL dodavatel e |
| LC0       | OECD 203            | >10000 mg/l | 96 hour          | Fishes (Oncorhynchus mykiss) |             | BL dodavatel e |

### trizinc bis(orthophosphate)

| Parameter | Method | Value      | Time of exposure | Species                                     | Environment | Source         |
|-----------|--------|------------|------------------|---------------------------------------------|-------------|----------------|
| LC50      |        | 112 µg/l   | 96 day           | Fishes                                      |             | BL dodavatel e |
| EC50      |        | 0.413 mg/l | 48 hour          | Daphnia (Ceriodaphnia dubia)                |             | BL dodavatel e |
| ErC50     |        | 0.136 mg/l | 72 hour          | Algae (Selenastrum capricornutum)           |             | BL dodavatel e |
| EC50      |        | 5.2 mg/l   | 3 hour           | Microorganisms (Photobacterium phosphoreum) |             | echa           |

### zinc oxide

| Parameter | Method | Value      | Time of exposure | Species                                 | Environment | Source         |
|-----------|--------|------------|------------------|-----------------------------------------|-------------|----------------|
| LC50      |        | 1.793 mg/l | 96 hour          | Fishes (Danio rerio)                    |             | BL dodavatel e |
| EC50      |        | 0.86 mg/l  | 48 hour          | Daphnia (Daphnia magna)                 |             | BL dodavatel e |
| IC50      |        | 136 µg/l   | 72 hour          | Algae (Pseudokirchneriella subcapitata) |             | BL dodavatel e |
| NOEC      |        | 24 µg/l    | 72 hour          | Algae (Pseudokirchneriella subcapitata) |             | BL dodavatel e |
| NOEC      |        | 5.6 µg/l   | 24 day           | Crustaceans (Holmesimysis costata)      |             | BL dodavatel e |

### Chronic toxicity

#### n-butyl acetate

| Parameter | Method   | Value   | Time of exposure | Species                 | Environment | Source         |
|-----------|----------|---------|------------------|-------------------------|-------------|----------------|
| NOEC      | OECD 211 | 23 mg/l | 21 day           | Daphnia (Daphnia magna) |             | BL dodavatel e |

|                                                                                   |                                                                                                                                      |                                                                                     |
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zinc oxide

| Parameter | Method | Value            | Time of exposure | Species               | Environment | Source         |
|-----------|--------|------------------|------------------|-----------------------|-------------|----------------|
| NOEC      |        | 0.056-0.061 mg/l | 116 day          | Fishes (Salmo trutta) |             | BL dodavatel e |

#### 12.2. Persistence and degradability

not available

#### 12.3. Bioaccumulative potential

Petroleum resins

| Parameter | Value | Time of exposure | Species | Environment | Surrounding temperature [°C] | Source        |
|-----------|-------|------------------|---------|-------------|------------------------------|---------------|
| Log Pow   | ≥4    |                  |         |             |                              | BL dodavatele |

Not available.

#### 12.4. Mobility in soil

Not available.

#### 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. 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

Not available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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

##### Waste management legislation

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

##### Waste type code

- 08 01 11 waste paint and varnish containing organic solvents or other hazardous substances \*
- 08 01 13 sludges from paint or varnish containing organic solvents or other hazardous substances \*
- 20 01 27 paint, inks, adhesives and resins containing hazardous substances \*

##### Packaging waste type code

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

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

### SECTION 14: Transport information

#### 14.1. UN number or ID number

UN 1263

#### 14.2. UN proper shipping name

PAINT

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### 14.3. Transport hazard class(es)

3.0 Flammable liquids

### 14.4. Packing group

III - substances presenting low danger

### 14.5. Environmental hazards

Yes

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

#### Additional information

Hazard identification No.

**30**

UN number

**1263**

Classification code

F1

Safety signs

3+ hazardous for the environment



#### Road transport - ADR

Special provisions

163, 367, 650

Limited quantities

5 L

Excepted quantities

E1

#### Packaging

Packing instructions

P001, IBC03, LP01, R001

Special packing provisions

PP1

Mixed packing provisions

MP19

#### Portable tanks and bulk containers

Guidelines

T2

Special provisions

TP1, TP29

#### ADR tank

Tank code

LGBF

Vehicles for tank carriage

FL

Transport category

3

Tunnel restriction code

(D/E)

#### Special provision for

packages

V12

operation

S2

#### Railway transport - RID

Special provisions

163, 367, 650

Excepted quantities

E1

#### Packaging

Packing instructions

P001, IBC03, LP01, R001

Special packing provisions

PP1

Mixed packing provisions

MP19

#### Portable tanks and bulk containers

Guidelines

T2

Special provisions

TP1, TP29

#### RID Tanks

Tank code

LGBF

Transport category

0

#### Special provision for

packages

W 12

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### Air transport - ICAO/IATA

|                                           |      |
|-------------------------------------------|------|
| Packaging instructions for limited amount | Y344 |
| 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

not available

## 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.           |
| H335 | May cause respiratory irritation.                       |
| H336 | May cause drowsiness or dizziness.                      |
| H351 | Suspected of causing cancer if inhaled.                 |
| H400 | Very toxic to aquatic life.                             |
| H410 | Very toxic to aquatic life with long lasting effects.   |
| H411 | Toxic to aquatic life with long lasting effects.        |
| H413 | May cause long lasting harmful effects to aquatic life. |

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

|           |                                                                                                                               |
|-----------|-------------------------------------------------------------------------------------------------------------------------------|
| P501      | Dispose of contents/container to by handing over to a person authorized to dispose of waste or a site designated by the town. |
| P102      | Keep out of reach of children.                                                                                                |
| P391      | Collect spillage.                                                                                                             |
| P405      | Store locked up.                                                                                                              |
| P271      | Use only outdoors or in a well-ventilated area.                                                                               |
| P101      | If medical advice is needed, have product container or label at hand.                                                         |
| P210      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                |
| P403+P235 | Store in a well-ventilated place. Keep cool.                                                                                  |
| P370+P378 | In case of fire: Use foam (alcohol resistant), carbon dioxide, a spray mist, powder to extinguish.                            |
| P261      | Avoid breathing vapours/spray.                                                                                                |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                    |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection.                                                    |
| P103      | Read label before use.                                                                                                        |

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

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

### Other important information about human health protection

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

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### 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                                           |
| EC50    | Concentration of a substance when it is affected 50% of the population                            |
| EINECS  | European Inventory of Existing Commercial Chemical Substances                                     |
| EL50    | Effective Loading for 50% of the tested organisms                                                 |
| EmS     | Emergency plan                                                                                    |
| 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       |
| IC50    | 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 the population    |
| LD50    | Lethal dose of a substance in which it can be expected death of 50% of the population             |
| LL50    | Lethal Loading for 50% of tested organisms                                                        |
| LOAEL   | Lowest observed adverse effect level                                                              |
| log Kow | Octanol-water partition coefficient                                                               |
| MARPOL  | International Convention for the Prevention of Pollution from Ships                               |
| NOAEC   | No observed adverse effect concentration                                                          |
| NOAEL   | No observed adverse effect level                                                                  |
| NOEC    | No observed effect concentration                                                                  |
| NOEL    | No observed effect level                                                                          |
| OEL     | Occupational Exposure Limits                                                                      |
| PBT     | Persistent, Bioaccumulative and Toxic                                                             |
| PNEC    | Predicted no-effect concentration                                                                 |
| ppm     | Parts per million                                                                                 |
| REACH   | Registration, Evaluation, Authorisation and Restriction of Chemicals                              |
| RID     | Agreement on the transport of dangerous goods by rail                                             |
| UN      | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB    | Substances of unknown or variable composition, complex reaction products or biological materials  |
| VOC     | Volatile organic compounds                                                                        |
| vPvB    | Very Persistent and very Bioaccumulative                                                          |

|                        |                                                  |
|------------------------|--------------------------------------------------|
| Aquatic Acute          | Hazardous to the aquatic environment             |
| Aquatic Chronic        | Hazardous to the aquatic environment (chronic)   |
| Asp. Tox.              | Aspiration hazard                                |
| Carc.                  | Carcinogenicity                                  |
| Flam. Liq.             | Flammable liquid                                 |
| STOT SE                | Specific target organ toxicity - single exposure |
| Without classification | Without classification                           |

### Training guidelines

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

# SAFETY DATA SHEET

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

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### 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)

The version 2.0 replaces the SDS version from 6.8.2019. Changes were made in sections 1, 2, 3, 7, 9 and 16.

### More information

Classification procedure - calculation method.

### Statement

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