

**2K-Epoxy Beton-Beschichtung**

Version number: 3.0

Revision: 21.10.2024  
Date of issue: 21.10.2024:**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name **2K-Epoxy Beton-Beschichtung** **4033a:**  
**Different colours**

Product number 4033077883 ff

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

Relevant identified uses Coating material for industrial or professional end-uses.

Uses advised against Any use not listed above.

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

ADLER-Werk Lackfabrik Johann Berghofer GmbH & Co KG  
Bergwerkstraße 22  
A-6130 Schwaz  
Austria

Telephone: +4352426922713  
e-mail: sdb-info@adler-lacke.com

Further information obtainable from: sdb-info@adler-lacke.com

Telephone  
+43 5242 6922-713  
Mon - Thu 07:00 - 16:25  
Fri 07:00 - 12:15

**1.4 Emergency telephone number**

| Country | Name                                                         | Telephone       |
|---------|--------------------------------------------------------------|-----------------|
| Austria | Vergiftungsinformationszentrale (Poison Informations Center) | +43 1 406 43 43 |

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Hazard class                      | Category | Hazard class and category | Hazard statement |
|-----------------------------------|----------|---------------------------|------------------|
| skin corrosion/irritation         | 2        | Skin Irrit. 2             | H315             |
| serious eye damage/eye irritation | 1        | Eye Dam. 1                | H318             |

For full text of abbreviations: see SECTION 16.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 (CLP)

- Signal word danger

- Pictograms

GHS05



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### - Hazard statements

- H315 Causes skin irritation.  
H318 Causes serious eye damage.

### - Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P280 Wear protective gloves/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P321 Specific treatment (see on this label).  
P362+P364 Take off contaminated clothing and wash it before reuse.

### - Supplemental hazard information

- EUH208 Contains 3,6,9,12-tetraazatetradecamethylenediamine, 2,2'-iminodi(ethylamine), Amines, polyethylenepoly-, triethylenetetramine fraction. May produce an allergic reaction.  
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### - Hazardous ingredients for labelling

Linseed oil polymer with bisphenol A, bisphenol A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether and pentaethylene-hexamine

## 2.3 Other hazards

Keep out of reach of children and do not empty into the drains. Dispose remainders properly (collection of hazardous waste, disposal companies). Empty containers must be entered into the recycling system. The usual safety precautions must be observed during processing of the product.

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Description of the mixture

Water-based poly-amino amide resin with pigments and additives.

| Name of substance | Identifier                                                                                                                   | Wt%       | Classification acc. to GHS |
|-------------------|------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------|
| Titanium dioxide  | CAS No<br>13463-67-7<br><br>EC No<br>236-675-5<br><br>Index No<br>022-006-00-2<br><br>REACH Reg. No<br>01-2119489379-17-xxxx | 10 – < 25 | Carc. 2 / H351             |

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| Name of substance                                                                                                                                 | Identifier                                                                                                                 | Wt%         | Classification acc. to GHS                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Linseed oil polymer with bisphenol A, bisphenol A diglycidyl ether, diethylenetriamine, formaldehyde, glycidyl Ph ether and pentaethylenehexamine | CAS No<br>68915-81-1<br><br>EC No<br>639-495-9                                                                             | 10 – < 25   | Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318                                                                                             |
| Amines, polyethylenepoly-, triethylenetetramine fraction                                                                                          | CAS No<br>90640-67-8<br><br>EC No<br>292-588-2<br><br>REACH Reg. No<br>01-2119487919-13-xxxx                               | 0,1 – < 0,3 | Acute Tox. 4 / H302<br>Acute Tox. 4 / H312<br>Skin Corr. 1B / H314<br>Skin Sens. 1 / H317<br>Aquatic Chronic 3 / H412                 |
| 2,2'-iminodi(ethylamine)                                                                                                                          | CAS No<br>111-40-0<br><br>EC No<br>203-865-4<br><br>Index No<br>612-058-00-X<br><br>REACH Reg. No<br>01-2119473793-27-xxxx | 0,1 – < 0,3 | Acute Tox. 4 / H302<br>Acute Tox. 4 / H312<br>Acute Tox. 2 / H330<br>Skin Corr. 1B / H314<br>Skin Sens. 1B / H317<br>STOT SE 3 / H335 |
| 3,6,9,12-tetraazatetradecamethylenediamine                                                                                                        | CAS No<br>4067-16-7<br><br>EC No<br>223-775-9<br><br>Index No<br>612-064-00-2                                              | 0,1 – < 0,3 | Skin Corr. 1B / H314<br>Skin Sens. 1 / H317<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 1 / H410                                     |

| Name of substance                                        | Specific Conc. Limits | M-Factors | ATE                                        | Exposure route                       |
|----------------------------------------------------------|-----------------------|-----------|--------------------------------------------|--------------------------------------|
| 2,2'-iminodi(ethylamine)                                 | -                     | -         | 1.080 mg/kg<br>1.090 mg/kg<br>>0,5 mg/l/4h | oral<br>dermal<br>inhalation: vapour |
| Amines, polyethylenepoly-, triethylenetetramine fraction | -                     | -         | 1.862 mg/kg<br>1.465 mg/kg                 | oral<br>dermal                       |

### Remarks

For full text of abbreviations: see SECTION 16. This mixture contains  $\geq 1\%$  titanium dioxide (CAS 13463-67-7). The Annex VI classification of Titanium dioxide does not apply to this mixture according to its Note 10.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

#### Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

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### Following skin contact

Take off contaminated clothing. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Do not use any solvents or thinners!.

### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Keep at rest. IF SWALLOWED: Immediately call a doctor.

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

Symptoms and effects are not known to date.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>), BC-powder, Water spray, Alcohol resistant foam, Sand

Unsuitable extinguishing media

Water jet

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

Thick smoke may occur in case of a fire. Inhaling the decomposed products may cause serious damage to health. The formation of explosive dust-air-mixtures is possible. Upon contact with air, the vapours may form an explosive mixture. . Combustible.

Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety. Provision of sufficient ventilation. Control of dust.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. Dilute with plenty of water.

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

Advice on how to contain a spill

Covering of drains, Fill contaminated material in the original container or any other suitable one and dispose it in accordance with point 13.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

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Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed-stuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Flammability hazards

Keep away from sources of ignition - No smoking.

Control of effects

Do not pierce or burn, even after use. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. . Close the open container carefully and keep it straight to prevent leakage.  
Store in the original container. Storage temperature of 0 °C/32 °F and up to 50 °C/122 °F.

Protect against external exposure, such as

frost

### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) |                         |                |                     |              |                                 |               |                                  |                         |                                            |                  |            |
|----------------------------------------------------------------|-------------------------|----------------|---------------------|--------------|---------------------------------|---------------|----------------------------------|-------------------------|--------------------------------------------|------------------|------------|
| Cou<br>ntry                                                    | Name of<br>agent        | CAS No         | Ide<br>nti-<br>fier | TWA<br>[ppm] | TWA<br>[mg/<br>m <sup>3</sup> ] | STEL<br>[ppm] | STEL<br>[mg/<br>m <sup>3</sup> ] | Ceil-<br>ing-C<br>[ppm] | Ceil-<br>ing-C<br>[mg/<br>m <sup>3</sup> ] | Not<br>atio<br>n | Sour<br>ce |
| AT                                                             | diethylenetri-<br>amine | 111-40-<br>0   | MAK                 | 1            | 4                               |               |                                  |                         |                                            |                  | GKV        |
| AT                                                             | titanium diox-<br>ide   | 13463-<br>67-7 | MAK                 |              | 5                               |               | 10<br>(60<br>min)                |                         |                                            | r,<br>dust       | GKV        |

#### Notation

Ceiling-C dust ceiling value is a limit value above which exposure should not occur as dust

r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute

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### Notation

period (unless otherwise specified)  
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

| Relevant DNELs of components                                |            |           |                        |                                    |                   |                             |
|-------------------------------------------------------------|------------|-----------|------------------------|------------------------------------|-------------------|-----------------------------|
| Name of sub-stance                                          | CAS No     | End-point | Threshold level        | Protection goal, route of exposure | Used in           | Exposure time               |
| 2,2'-iminodi(ethyl-amine)                                   | 111-40-0   | DNEL      | 15,4 mg/m <sup>3</sup> | human, inhalat-ory                 | worker (industry) | chronic - system-ic effects |
| 2,2'-iminodi(ethyl-amine)                                   | 111-40-0   | DNEL      | 92,1 mg/m <sup>3</sup> | human, inhalat-ory                 | worker (industry) | acute - systemic effects    |
| 2,2'-iminodi(ethyl-amine)                                   | 111-40-0   | DNEL      | 0,87 mg/m <sup>3</sup> | human, inhalat-ory                 | worker (industry) | chronic - local ef-fects    |
| 2,2'-iminodi(ethyl-amine)                                   | 111-40-0   | DNEL      | 2,6 mg/m <sup>3</sup>  | human, inhalat-ory                 | worker (industry) | acute - local ef-fects      |
| 2,2'-iminodi(ethyl-amine)                                   | 111-40-0   | DNEL      | 11,4 mg/kg bw/day      | human, dermal                      | worker (industry) | chronic - system-ic effects |
| Amines, polyethyl-enepoly-, triethyl-enetetramine frac-tion | 90640-67-8 | DNEL      | 0,54 mg/m <sup>3</sup> | human, inhalat-ory                 | worker (industry) | chronic - system-ic effects |

| Relevant PNECs of components                                |            |           |                 |                        |                               |                              |
|-------------------------------------------------------------|------------|-----------|-----------------|------------------------|-------------------------------|------------------------------|
| Name of sub-stance                                          | CAS No     | End-point | Threshold level | Organism               | Environmental compartment     | Exposure time                |
| 2,2'-iminodi(ethyl-amine)                                   | 111-40-0   | PNEC      | 0,56 mg/l       | aquatic organ-isms     | freshwater                    | short-term (single instance) |
| 2,2'-iminodi(ethyl-amine)                                   | 111-40-0   | PNEC      | 0,056 mg/l      | aquatic organ-isms     | marine water                  | short-term (single instance) |
| 2,2'-iminodi(ethyl-amine)                                   | 111-40-0   | PNEC      | 6 mg/l          | aquatic organ-isms     | sewage treat-ment plant (STP) | short-term (single instance) |
| 2,2'-iminodi(ethyl-amine)                                   | 111-40-0   | PNEC      | 1.072 mg/kg     | aquatic organ-isms     | freshwater sedi-ment          | short-term (single instance) |
| 2,2'-iminodi(ethyl-amine)                                   | 111-40-0   | PNEC      | 107,2 mg/kg     | aquatic organ-isms     | marine sediment               | short-term (single instance) |
| 2,2'-iminodi(ethyl-amine)                                   | 111-40-0   | PNEC      | 7,97 mg/kg      | terrestrial or-ganisms | soil                          | short-term (single instance) |
| Amines, polyethyl-enepoly-, triethyl-enetetramine frac-tion | 90640-67-8 | PNEC      | 0,027 mg/l      | aquatic organ-isms     | freshwater                    | short-term (single instance) |
| Amines, polyethyl-enepoly-, triethyl-enetetramine frac-tion | 90640-67-8 | PNEC      | 0,003 mg/l      | aquatic organ-isms     | marine water                  | short-term (single instance) |
| Amines, polyethyl-enepoly-, triethyl-enetetramine frac-tion | 90640-67-8 | PNEC      | 0,13 mg/l       | aquatic organ-isms     | sewage treat-ment plant (STP) | short-term (single instance) |

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| Relevant PNECs of components                             |            |           |                 |                       |                           |                              |
|----------------------------------------------------------|------------|-----------|-----------------|-----------------------|---------------------------|------------------------------|
| Name of substance                                        | CAS No     | End-point | Threshold level | Organism              | Environmental compartment | Exposure time                |
| Amines, polyethylenepoly-, triethylenetetramine fraction | 90640-67-8 | PNEC      | 8,572 mg/kg     | aquatic organisms     | freshwater sediment       | short-term (single instance) |
| Amines, polyethylenepoly-, triethylenetetramine fraction | 90640-67-8 | PNEC      | 0,857 mg/kg     | aquatic organisms     | marine sediment           | short-term (single instance) |
| Amines, polyethylenepoly-, triethylenetetramine fraction | 90640-67-8 | PNEC      | 1,25 mg/kg      | terrestrial organisms | soil                      | short-term (single instance) |

### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection (EN 166).

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Use protective gloves made of latex or PVC as spray protection for short-term work. Latex: penetration time  $\geq 480$  min, material strength: 0.5mm / PVC: penetration time  $> 60$  min, material strength: 0.2mm.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

During spraying wear suitable respiratory equipment. Combination filtering device (EN 141). Particulate filter device (EN 143). Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                          |                   |
|----------------------------------------------------------|-------------------|
| Physical state                                           | liquid            |
| Colour                                                   | different colours |
| Odour                                                    | specific type     |
| Melting point/freezing point                             | not determined    |
| Boiling point or initial boiling point and boiling range | 100 °C            |

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|                           |                                           |
|---------------------------|-------------------------------------------|
| Flammability              | not relevant                              |
| Flash point               | not determined                            |
| Auto-ignition temperature | not applicable                            |
| pH (value)                | not determined                            |
| Kinematic viscosity       | 7.500 – 9.000 mm <sup>2</sup> /s at 20 °C |
| Dynamic viscosity         | 8.000 – 11.000 mPa s                      |

### Solubility(ies)

|                  |                            |
|------------------|----------------------------|
| Water solubility | miscible in any proportion |
|------------------|----------------------------|

### Partition coefficient

|                                                   |                                   |
|---------------------------------------------------|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---------------------------------------------------|-----------------------------------|

|                 |                 |
|-----------------|-----------------|
| Vapour pressure | 23 hPa at 20 °C |
|-----------------|-----------------|

### Density and/or relative density

|                         |                                               |
|-------------------------|-----------------------------------------------|
| Density                 | 1,336 – 1,359 g/cm <sup>3</sup> at 20 °C      |
| Relative vapour density | information on this property is not available |

|                          |                       |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

### Other safety parameters

|                      |                                         |
|----------------------|-----------------------------------------|
| Explosive properties | Does not apply (see note in chapter 16) |
|----------------------|-----------------------------------------|

## 9.2 Other information

|                                                    |                                                             |
|----------------------------------------------------|-------------------------------------------------------------|
| Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards): not relevant |
|----------------------------------------------------|-------------------------------------------------------------|

### Other safety characteristics

|             |                                 |
|-------------|---------------------------------|
| Miscibility | Completely miscible with water. |
|-------------|---------------------------------|

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

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### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5 Incompatible materials

Oxidisers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Shall not be classified as acutely toxic.

| Acute toxicity estimate (ATE) of components              |            |                    |              |
|----------------------------------------------------------|------------|--------------------|--------------|
| Name of substance                                        | CAS No     | Exposure route     | ATE          |
| 2,2'-iminodi(ethylamine)                                 | 111-40-0   | oral               | 1.080 mg/kg  |
| 2,2'-iminodi(ethylamine)                                 | 111-40-0   | dermal             | 1.090 mg/kg  |
| 2,2'-iminodi(ethylamine)                                 | 111-40-0   | inhalation: vapour | >0,5 mg/l/4h |
| Amines, polyethylenepoly-, triethylenetetramine fraction | 90640-67-8 | oral               | 1.862 mg/kg  |
| Amines, polyethylenepoly-, triethylenetetramine fraction | 90640-67-8 | dermal             | 1.465 mg/kg  |

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/eye irritation

Causes serious eye damage.

##### Respiratory or skin sensitisation

Contains 3,6,9,12-tetraazatetradecamethylenediamine, 2,2'-iminodi(ethylamine), Amines, polyethylenepoly-, triethylenetetramine fraction. May produce an allergic reaction.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

##### Carcinogenicity

Shall not be classified as carcinogenic.

##### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

##### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

##### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

Not listed.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Relevant provisions relating to waste

List of wastes, Decision 2000/532/EC on the list of waste

- Product  
08 01 15\* aqueous sludges containing paint or varnish containing organic solvents or other hazardous substances
- Product residues  
15 01 10\* packaging containing residues of or contaminated by hazardous substances
- Packagings  
15 01 02 plastic packaging  
15 01 04 metallic packaging

#### List of wastes (ÖNORM S 2100)

55503: Lack- und Farbschlamm.

- Restentleerte Verpackungen (ja nach angeführtem Recyclingcode gemäß der Richtlinie 94/62/EG auf der Verpackung)

35105: Eisenmetalleballagen (Recyclingcode FE40).

57118: Kunststoffemballagen und -behälter (Recyclingcodes: PET01, PE-HD02, PE-LD04 oder PP05).

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### Disposal methods:

#### Product

Waste production should be avoided or minimised if possible.

Do not empty into the drains. Avoid releasing the product into the environment. Waste, containers must be removed, disposed in a safe way.

#### Packagings

Waste production should be avoided or minimised if possible.

Packaging waste should be recycled. Burning or landfilling should only be considered if recycling is not feasible.

### Notes on disposal:

#### Product

Disposal of this product and its dissolutions and by-products must be carried out in accordance with the environmental protection requirements and waste disposal laws as well as the requirements of the local authorities at all times. Excess must be handed over, disposed to a recognised waste disposal company (disposal company/recycling company).

#### Packagings

With the aid of the information provided in this safety data sheet, the responsible authorities must be consulted regarding classification of empty containers, packaging. Empty containers should be disposed, recycled according to type. Licenced containers, packaging can be disposed free of charge via system partners, where applicable. Containers with residual contents must be disposed in accordance with local and national legal provisions.

### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

- |                                                                     |                                                                       |
|---------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>14.1 UN number or ID number</b>                                  | not subject to transport regulations                                  |
| <b>14.2 UN proper shipping name</b>                                 | not relevant                                                          |
| <b>14.3 Transport hazard class(es)</b>                              | none                                                                  |
| <b>14.4 Packing group</b>                                           | not assigned                                                          |
| <b>14.5 Environmental hazards</b>                                   | non-environmentally hazardous acc. to the dangerous goods regulations |
| <b>14.6 Special precautions for user</b>                            | There is no additional information.                                   |
| <b>14.7 Maritime transport in bulk according to IMO instruments</b> | The cargo is not intended to be carried in bulk.                      |

### Information for each of the UN Model Regulations

#### **Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information**

Not subject to ADR, RID and ADN.

#### **International Maritime Dangerous Goods Code (IMDG) - Additional information**

Not subject to IMDG.

#### **International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

Not subject to ICAO-IATA.

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### Relevant provisions of the European Union (EU)

##### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

##### Seveso Directive

| 2012/18/EU (Seveso III) |                                       |                                                                                       |       |
|-------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-------|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
|                         | not assigned                          |                                                                                       |       |

##### Deco-Paint Directive (2004/42/EC)

|             |                    |
|-------------|--------------------|
| VOC content | 0,1215 %<br>10 g/l |
|-------------|--------------------|

##### Industrial Emissions Directive (IED) (2010/75/EU)

|             |                       |
|-------------|-----------------------|
| VOC content | 0,1215 %<br>1,651 g/l |
|-------------|-----------------------|

##### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

##### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

##### Water Framework Directive (WFD)

| List of pollutants (WFD) |        |           |         |
|--------------------------|--------|-----------|---------|
| Name of substance        | CAS No | Listed in | Remarks |
| Titanium dioxide         |        | a)        |         |
| Titanium dioxide         |        | a)        |         |

##### Legend

a) Indicative list of the main pollutants

##### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

##### Regulation on drug precursors

none of the ingredients are listed

##### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

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### National regulations (Austria)

Ordinance on combustible liquids (VbF) not applicable

- VbF (group and hazard class) not applicable

### National regulations (Germany)

#### Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK 1 slightly hazardous to water  
(water hazard class)

#### Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 10 (combustible liquids)

### 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

| Abbr.           | Descriptions of used abbreviations                                                                                                                                                                                    |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute Tox.      | Acute toxicity                                                                                                                                                                                                        |
| ADN             | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR             | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)                                                         |
| Aquatic Acute   | Hazardous to the aquatic environment - acute hazard                                                                                                                                                                   |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard                                                                                                                                                                 |
| ATE             | Acute Toxicity Estimate                                                                                                                                                                                               |
| Carc.           | Carcinogenicity                                                                                                                                                                                                       |
| CAS             | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                                                                |
| Ceiling-C       | Ceiling value                                                                                                                                                                                                         |
| CLP             | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures                                                                                                                    |
| DGR             | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                                                            |
| DNEL            | Derived No-Effect Level                                                                                                                                                                                               |
| EC No           | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)                                     |
| ED              | Endocrine disruptor                                                                                                                                                                                                   |
| EINECS          | European Inventory of Existing Commercial Chemical Substances                                                                                                                                                         |
| ELINCS          | European List of Notified Chemical Substances                                                                                                                                                                         |
| Eye Dam.        | Seriously damaging to the eye                                                                                                                                                                                         |
| Eye Irrit.      | Irritant to the eye                                                                                                                                                                                                   |
| GHS             | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                                                             |
| GKV             | Grenzwerteverordnung                                                                                                                                                                                                  |

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| Abbr.       | Descriptions of used abbreviations                                                                                                                                      |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IATA        | International Air Transport Association                                                                                                                                 |
| IATA/DGR    | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                          |
| ICAO        | International Civil Aviation Organization                                                                                                                               |
| IMDG        | International Maritime Dangerous Goods Code                                                                                                                             |
| index No    | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008                                                |
| LGK         | Lagerklasse (storage class according to TRGS 510, Germany)                                                                                                              |
| NLP         | No-Longer Polymer                                                                                                                                                       |
| PBT         | Persistent, Bioaccumulative and Toxic                                                                                                                                   |
| PNEC        | Predicted No-Effect Concentration                                                                                                                                       |
| ppm         | Parts per million                                                                                                                                                       |
| REACH       | Registration, Evaluation, Authorisation and Restriction of Chemicals                                                                                                    |
| RID         | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr.  | Corrosive to skin                                                                                                                                                       |
| Skin Irrit. | Irritant to skin                                                                                                                                                        |
| Skin Sens.  | Skin sensitisation                                                                                                                                                      |
| STEL        | Short-term exposure limit                                                                                                                                               |
| STOT SE     | Specific target organ toxicity - single exposure                                                                                                                        |
| SVHC        | Substance of Very High Concern                                                                                                                                          |
| TRGS        | Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)                                                                                  |
| TWA         | Time-weighted average                                                                                                                                                   |
| VbF         | Ordinance on combustible liquids (Austria)                                                                                                                              |
| VOC         | Volatile Organic Compounds                                                                                                                                              |
| vPvB        | Very Persistent and very Bioaccumulative                                                                                                                                |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                     |
|------|------------------------------------------|
| H302 | Harmful if swallowed.                    |
| H312 | Harmful in contact with skin.            |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation.                  |

| Code | Text                                                  |
|------|-------------------------------------------------------|
| H317 | May cause an allergic skin reaction.                  |
| H318 | Causes serious eye damage.                            |
| H330 | Fatal if inhaled.                                     |
| H335 | May cause respiratory irritation.                     |
| H351 | Suspected of causing cancer.                          |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects.    |

### Note concerning the lower explosion limit of water-thinnable varnishes:

See PTB research report PEx5 200500185, Physical-Technical Federal Agency Braunschweig, September 2005 and report PTB-W-57, February 1994.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.