

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

Trade name **Aduro Pigmcocolor 4in1 G50** **2245a:**  
**Different colours**

Product number 2245000010 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](mailto:sdb-info@adler-lacke.com)

Further information obtainable from: [sdb-info@adler-lacke.com](mailto: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 Information 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 |
|---------------------------------------------------------------------------------|----------|---------------------------|------------------|
| flammable liquid                                                                | 2        | Flam. Liq. 2              | H225             |
| serious eye damage/eye irritation                                               | 2        | Eye Irrit. 2              | H319             |
| specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3        | STOT SE 3                 | H336             |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

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

- Signal word danger

- Pictograms

GHS02, GHS07



- Hazard statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing mist/vapours/spray.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P312 Call a POISON CENTRE/doctor if you feel unwell.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents, container in accordance with national regulations.

- Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.  
EUH208 Contains polyamide wax. 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

n-butyl acetate, ethyl acetate, 1-Methoxy-2-propanol, 2-methoxy-1-methylethyl acetate

**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

Acrylic resin, cellulose acetate butyrate with pigments and other additives in organic solvents.

| Name of substance | Identifier         | Wt%       | Classification acc. to GHS              |
|-------------------|--------------------|-----------|-----------------------------------------|
| n-butyl acetate   | CAS No<br>123-86-4 | 25 – < 50 | Flam. Liq. 3 / H226<br>STOT SE 3 / H336 |

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| Name of substance               | Identifier                                                                                                                   | Wt%       | Classification acc. to GHS                                     |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------|
|                                 | EC No<br>204-658-1<br><br>Index No<br>607-025-00-1<br><br>REACH Reg. No<br>01-2119485493-29-xxxx                             |           |                                                                |
| 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                                                 |
| Isobutylacetat                  | CAS No<br>110-19-0<br><br>EC No<br>203-745-1<br><br>Index No<br>607-026-00-7<br><br>REACH Reg. No<br>01-2119488971-22-xxxx   | 5 – < 10  | Flam. Liq. 2 / H225                                            |
| ethyl acetate                   | CAS No<br>141-78-6<br><br>EC No<br>205-500-4<br><br>Index No<br>607-022-00-5<br><br>REACH Reg. No<br>01-2119475103-46-xxxx   | 3 – < 5   | Flam. Liq. 2 / H225<br>Eye Irrit. 2 / H319<br>STOT SE 3 / H336 |
| 1-Methoxy-2-propanol            | CAS No<br>107-98-2<br><br>EC No<br>203-539-1<br><br>Index No<br>603-064-00-3<br><br>REACH Reg. No<br>01-2119457435-35-xxxx   | 3 – < 5   | Flam. Liq. 3 / H226<br>STOT SE 3 / H336                        |
| 2-methoxy-1-methylethyl acetate | CAS No<br>108-65-6<br><br>EC No<br>203-603-9<br><br>Index No<br>607-195-00-7<br><br>REACH Reg. No<br>01-2119475791-29-xxxx   | 3 – < 5   | Flam. Liq. 3 / H226<br>STOT SE 3 / H336                        |
| Butan-1-ol                      | CAS No                                                                                                                       | 1 – < 3   | Flam. Liq. 3 / H226                                            |

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| Name of substance                                   | Identifier                                                                                                      | Wt%         | Classification acc. to GHS                                                                               |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------|
|                                                     | 71-36-3<br><br>EC No<br>200-751-6<br><br>Index No<br>603-004-00-6<br><br>REACH Reg. No<br>01-2119484630-38-xxxx |             | Acute Tox. 4 / H302<br>Skin Irrit. 2 / H315<br>Eye Dam. 1 / H318<br>STOT SE 3 / H335<br>STOT SE 3 / H336 |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | CAS No<br>64742-49-0<br><br>EC No<br>920-750-0<br><br>Index No<br>649-328-00-1                                  | 1 - < 3     | Flam. Liq. 2 / H225<br>STOT SE 3 / H336<br>Asp. Tox. 1 / H304<br>Aquatic Chronic 2 / H411                |
| polyamide wax                                       | EC No<br>434-430-9<br><br>REACH Reg. No<br>01-0000018057-71-xxxx                                                | 0,3 - < 0,5 | Skin Sens. 1B / H317<br>STOT RE 2 / H373<br>Aquatic Chronic 4 / H413                                     |

| Name of substance | Specific Conc. Limits | M-Factors | ATE       | Exposure route |
|-------------------|-----------------------|-----------|-----------|----------------|
| Butan-1-ol        | -                     | -         | 500 mg/kg | oral           |

### 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.

#### 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**

Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. 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

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.

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### 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. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

##### - Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Vapours may form explosive mixtures with air.

##### 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

##### - Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

##### - Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Protect from sunlight.

##### 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.

##### - Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

##### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

#### 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) |                          |          |            |           |                          |            |                           |                  |                                 |           |        |
|----------------------------------------------------------------|--------------------------|----------|------------|-----------|--------------------------|------------|---------------------------|------------------|---------------------------------|-----------|--------|
| Country                                                        | Name of agent            | CAS No   | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceil-ing-C [ppm] | Ceil-ing-C [mg/m <sup>3</sup> ] | Not ation | Source |
| AT                                                             | 1-methoxypropanol-2      | 107-98-2 | MAK        | 50        | 187                      |            |                           | 50               | 187                             | H         | GKV    |
| AT                                                             | 1-methoxypropylacetate-2 | 108-65-6 | MAK        | 50        | 275                      |            |                           | 100 (5 min)      | 550 (5 min)                     | H         | GKV    |

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| Occupational exposure limit values (Workplace Exposure Limits) |                                 |            |            |           |             |            |              |                 |                   |          |              |
|----------------------------------------------------------------|---------------------------------|------------|------------|-----------|-------------|------------|--------------|-----------------|-------------------|----------|--------------|
| Country                                                        | Name of agent                   | CAS No     | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source       |
| AT                                                             | isobutyl acetate                | 110-19-0   | MAK        | 50        | 241         |            |              | 100             | 480               |          | GKV          |
| AT                                                             | n-butyl acetate                 | 123-86-4   | MAK        | 50        | 241         |            |              | 100             | 480               |          | GKV          |
| AT                                                             | titanium dioxide                | 13463-67-7 | MAK        |           | 5           |            | 10 (60 min)  |                 |                   | r, dust  | GKV          |
| AT                                                             | ethyl acetate                   | 141-78-6   | MAK        | 200       | 734         | 400        | 1.468        |                 |                   |          | GKV          |
| AT                                                             | 1-butanol                       | 71-36-3    | MAK        | 50        | 150         | 200        | 600          |                 |                   |          | GKV          |
| EU                                                             | 1-methoxy-2-propanol            | 107-98-2   | IOEL V     | 100       | 375         | 150        | 568          |                 |                   | H        | 2000/39/EC   |
| EU                                                             | 2-methoxy-1-methylethyl acetate | 108-65-6   | IOEL V     | 50        | 275         | 100        | 550          |                 |                   | H        | 2000/39/EC   |
| EU                                                             | isobutyl acetate                | 110-19-0   | IOEL V     | 50        | 241         | 150        | 723          |                 |                   |          | 2019/1831/EU |
| EU                                                             | n-butyl acetate                 | 123-86-4   | IOEL V     | 50        | 241         | 150        | 723          |                 |                   |          | 2019/1831/EU |
| EU                                                             | ethyl acetate                   | 141-78-6   | IOEL V     | 200       | 734         | 400        | 1.468        |                 |                   |          | 2017/164/EU  |

### Notation

|           |                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ceiling-C | ceiling value is a limit value above which exposure should not occur                                                                                                     |
| dust      | as dust                                                                                                                                                                  |
| H         | absorbed through the skin                                                                                                                                                |
| 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 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 substance            | CAS No   | End-point | Threshold level | Protection goal, route of exposure | Used in           | Exposure time              |
| Isobutylacetat               | 110-19-0 | DNEL      | 300 mg/m³       | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Isobutylacetat               | 110-19-0 | DNEL      | 600 mg/m³       | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| Isobutylacetat               | 110-19-0 | DNEL      | 300 mg/m³       | human, inhalatory                  | worker (industry) | chronic - local effects    |
| Isobutylacetat               | 110-19-0 | DNEL      | 600 mg/m³       | human, inhalatory                  | worker (industry) | acute - local effects      |

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| Relevant DNELs of components                        |            |           |                         |                                    |                   |                            |
|-----------------------------------------------------|------------|-----------|-------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                                   | CAS No     | End-point | Threshold level         | Protection goal, route of exposure | Used in           | Exposure time              |
| Isobutylacetat                                      | 110-19-0   | DNEL      | 10 mg/kg bw/day         | human, dermal                      | worker (industry) | chronic - systemic effects |
| Isobutylacetat                                      | 110-19-0   | DNEL      | 10 mg/kg bw/day         | human, dermal                      | worker (industry) | acute - systemic effects   |
| ethyl acetate                                       | 141-78-6   | DNEL      | 734 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| ethyl acetate                                       | 141-78-6   | DNEL      | 1.468 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| ethyl acetate                                       | 141-78-6   | DNEL      | 734 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - local effects    |
| ethyl acetate                                       | 141-78-6   | DNEL      | 1.468 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - local effects      |
| ethyl acetate                                       | 141-78-6   | DNEL      | 63 mg/kg bw/day         | human, dermal                      | worker (industry) | chronic - systemic effects |
| 1-Methoxy-2-propanol                                | 107-98-2   | DNEL      | 369 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| 1-Methoxy-2-propanol                                | 107-98-2   | DNEL      | 553,5 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| 1-Methoxy-2-propanol                                | 107-98-2   | DNEL      | 553,5 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - local effects      |
| 1-Methoxy-2-propanol                                | 107-98-2   | DNEL      | 183 mg/kg bw/day        | human, dermal                      | worker (industry) | chronic - systemic effects |
| 2-methoxy-1-methylethyl acetate                     | 108-65-6   | DNEL      | 275 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| 2-methoxy-1-methylethyl acetate                     | 108-65-6   | DNEL      | 550 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | acute - local effects      |
| 2-methoxy-1-methylethyl acetate                     | 108-65-6   | DNEL      | 796 mg/kg bw/day        | human, dermal                      | worker (industry) | chronic - systemic effects |
| Butan-1-ol                                          | 71-36-3    | DNEL      | 310 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - local effects    |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | 64742-49-0 | DNEL      | 2.085 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics | 64742-49-0 | DNEL      | 300 mg/kg bw/day        | human, dermal                      | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components |          |           |                 |                   |                           |                              |
|------------------------------|----------|-----------|-----------------|-------------------|---------------------------|------------------------------|
| Name of substance            | CAS No   | End-point | Threshold level | Organism          | Environmental compartment | Exposure time                |
| Isobutylacetat               | 110-19-0 | PNEC      | 0,17 mg/l       | aquatic organisms | freshwater                | short-term (single instance) |
| Isobutylacetat               | 110-19-0 | PNEC      | 0,017 mg/l      | aquatic organ-    | marine water              | short-term                   |

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| Relevant PNECs of components    |          |           |                 |                       |                              |                              |
|---------------------------------|----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance               | CAS No   | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
|                                 |          |           |                 | isms                  |                              | (single instance)            |
| Isobutylacetat                  | 110-19-0 | PNEC      | 200 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Isobutylacetat                  | 110-19-0 | PNEC      | 0,877 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Isobutylacetat                  | 110-19-0 | PNEC      | 0,088 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| Isobutylacetat                  | 110-19-0 | PNEC      | 0,075 mg/kg     | terrestrial organisms | soil                         | short-term (single instance) |
| ethyl acetate                   | 141-78-6 | PNEC      | 0,24 mg/l       | aquatic organisms     | freshwater                   | short-term (single instance) |
| ethyl acetate                   | 141-78-6 | PNEC      | 0,024 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| ethyl acetate                   | 141-78-6 | PNEC      | 650 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| ethyl acetate                   | 141-78-6 | PNEC      | 1,15 mg/kg      | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| ethyl acetate                   | 141-78-6 | PNEC      | 0,115 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| ethyl acetate                   | 141-78-6 | PNEC      | 0,148 mg/kg     | terrestrial organisms | soil                         | short-term (single instance) |
| 1-Methoxy-2-propanol            | 107-98-2 | PNEC      | 10 mg/l         | aquatic organisms     | freshwater                   | short-term (single instance) |
| 1-Methoxy-2-propanol            | 107-98-2 | PNEC      | 1 mg/l          | aquatic organisms     | marine water                 | short-term (single instance) |
| 1-Methoxy-2-propanol            | 107-98-2 | PNEC      | 100 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| 1-Methoxy-2-propanol            | 107-98-2 | PNEC      | 52,3 mg/kg      | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| 1-Methoxy-2-propanol            | 107-98-2 | PNEC      | 5,2 mg/kg       | aquatic organisms     | marine sediment              | short-term (single instance) |
| 1-Methoxy-2-propanol            | 107-98-2 | PNEC      | 4,59 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | PNEC      | 0,635 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | PNEC      | 0,064 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | PNEC      | 100 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | PNEC      | 3,29 mg/kg      | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | PNEC      | 0,329 mg/kg     | aquatic organisms     | marine sediment              | 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                |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | PNEC      | 0,29 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |
| Butan-1-ol                      | 71-36-3  | PNEC      | 0,082 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| Butan-1-ol                      | 71-36-3  | PNEC      | 0,008 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| Butan-1-ol                      | 71-36-3  | PNEC      | 2.476 mg/l      | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| Butan-1-ol                      | 71-36-3  | PNEC      | 0,324 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| Butan-1-ol                      | 71-36-3  | PNEC      | 0,032 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| Butan-1-ol                      | 71-36-3  | PNEC      | 0,017 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 nitrile rubber as spray protection for short-term work. Material strength: 0.2mm, penetration time  $\geq$  480 min

##### - 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                                                    | characteristic                                   |
| Melting point/freezing point                             | not determined                                   |
| Boiling point or initial boiling point and boiling range | 77,1 °C at 101,3 kPa                             |
| Flammability                                             | flammable liquid in accordance with GHS criteria |

#### Lower and upper explosion limit

|                             |                                                    |
|-----------------------------|----------------------------------------------------|
| Lower explosion limit (LEL) | 1 vol%                                             |
| Upper explosion limit (UEL) | 13,74 vol%                                         |
| Flash point                 | 17 °C                                              |
| Auto-ignition temperature   | >200 °C                                            |
| pH (value)                  | not determined                                     |
| Kinematic viscosity         | 55 – 65 <sup>s</sup> / <sub>DIN 4mm</sub> at 20 °C |

#### Solubility(ies)

|                  |                                |
|------------------|--------------------------------|
| Water solubility | not miscible in any proportion |
|------------------|--------------------------------|

#### Partition coefficient

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

|                 |                      |
|-----------------|----------------------|
| Vapour pressure | 9,187 kPa at 291,8 K |
|-----------------|----------------------|

#### Density and/or relative density

|                         |                                                                |
|-------------------------|----------------------------------------------------------------|
| Density                 | 0,99 – 1,176 <sup>g</sup> / <sub>cm<sup>3</sup></sub> at 20 °C |
| Relative vapour density | information on this property is not available                  |

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

### Other safety parameters

|                      |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| Explosive properties | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
|----------------------|---------------------------------------------------------------------------------------------|

### 9.2 Other information

|                                                    |                                    |
|----------------------------------------------------|------------------------------------|
| Information with regard to physical hazard classes | there is no additional information |
| Other safety characteristics                       | there is no additional information |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

Heating may cause a fire.

### 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       |
| Butan-1-ol                                  | 71-36-3 | oral           | 500 mg/kg |

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

Causes serious eye irritation.

**Respiratory or skin sensitisation**

Contains polyamide wax. 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**

May cause drowsiness or dizziness.

**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.

**Other information**

Repeated exposure may cause skin dryness or cracking.

**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/packageings**

It is a dangerous waste; only packageings which are approved (e.g. acc. to ADR) may be used. 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 11\* waste paint and 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)

55502: Altlacke, Altfarben, soferne lösemittel- und/oder schwermetallhaltig, sowie nicht voll ausgehärtete Reste in Gebinden.

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

35105: Eisenmetallemballagen (Recyclingcode FE40).

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

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****14.1 UN number or ID number**

|             |         |
|-------------|---------|
| ADR/RID/ADN | UN 1263 |
| IMDG-Code   | UN 1263 |
| ICAO-TI     | UN 1263 |

**14.2 UN proper shipping name**

|             |       |
|-------------|-------|
| ADR/RID/ADN | PAINT |
| IMDG-Code   | PAINT |

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|                                                                              |                                                                       |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| ICAO-TI                                                                      | Paint                                                                 |
| <b>14.3 Transport hazard class(es)</b>                                       |                                                                       |
| ADR/RID/ADN                                                                  | 3                                                                     |
| IMDG-Code                                                                    | 3                                                                     |
| ICAO-TI                                                                      | 3                                                                     |
| <b>14.4 Packing group</b>                                                    |                                                                       |
| ADR/RID/ADN                                                                  | II                                                                    |
| IMDG-Code                                                                    | II                                                                    |
| ICAO-TI                                                                      | II                                                                    |
| <b>14.5 Environmental hazards</b>                                            | non-environmentally hazardous acc. to the dangerous goods regulations |
| <b>14.6 Special precautions for user</b>                                     |                                                                       |
| Provisions for dangerous goods (ADR) should be complied within the premises. |                                                                       |
| <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**

|                                                                                     |                     |
|-------------------------------------------------------------------------------------|---------------------|
| Classification code                                                                 | F1                  |
| Danger label(s)                                                                     | 3                   |
|  |                     |
| Special provisions (SP)                                                             | 163, 367, 640D, 650 |
| Excepted quantities (EQ)                                                            | E2                  |
| Limited quantities (LQ)                                                             | 5 L                 |
| Transport category (TC)                                                             | 2                   |
| Tunnel restriction code (TRC)                                                       | D/E                 |
| Hazard identification No                                                            | 33                  |

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

|                                                                                     |                 |
|-------------------------------------------------------------------------------------|-----------------|
| Marine pollutant                                                                    | -               |
| Danger label(s)                                                                     | 3               |
|  |                 |
| Special provisions (SP)                                                             | 163, 367        |
| Excepted quantities (EQ)                                                            | E2              |
| Limited quantities (LQ)                                                             | 5 L             |
| EmS                                                                                 | F-E, <u>S-E</u> |
| Stowage category                                                                    | B               |

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

Danger label(s) 3



Special provisions (SP) A3, A72, A192

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

## 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 |
| P5c                     | flammable liquids (cat. 2, 3)         | 5.000 50.000                                                                          | 51)   |

#### Notation

51) flammable liquids, categories 2 or 3 not covered by P5a and P5b

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

|             |                    |
|-------------|--------------------|
| VOC content | 59,23 %<br>660 g/l |
|-------------|--------------------|

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

|             |                      |
|-------------|----------------------|
| VOC content | 58,29 %<br>641,2 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)        |         |

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### 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

### National regulations (Austria)

Ordinance on combustible liquids (VbF)

- VbF (group and hazard class) 2

### 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) 3 (flammable or desensitizing explosive 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                                                                                                                                                                                    |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2000/39/EC      | Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC                                                                       |
| 2017/164/EU     | Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU    |
| 2019/1831/EU    | Commission Directive establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC                                   |
| 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)                                                         |
| ADR/RID/ADN     | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)                                                                                                       |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard                                                                                                                                                                 |
| Asp. Tox.       | Aspiration hazard                                                                                                                                                                                                     |
| ATE             | Acute Toxicity Estimate                                                                                                                                                                                               |
| Carc.           | Carcinogenicity                                                                                                                                                                                                       |
| CAS             | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical sub-                                                                                                                       |

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| Abbr.       | Descriptions of used abbreviations                                                                                                                                                |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | stances)                                                                                                                                                                          |
| 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                                                                                                                                     |
| EmS         | Emergency Schedule                                                                                                                                                                |
| Eye Dam.    | Seriously damaging to the eye                                                                                                                                                     |
| Eye Irrit.  | Irritant to the eye                                                                                                                                                               |
| Flam. Liq.  | Flammable liquid                                                                                                                                                                  |
| GHS         | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                         |
| GKV         | Grenzwerteverordnung                                                                                                                                                              |
| IATA        | International Air Transport Association                                                                                                                                           |
| IATA/DGR    | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                    |
| ICAO        | International Civil Aviation Organization                                                                                                                                         |
| ICAO-TI     | Technical instructions for the safe transport of dangerous goods by air                                                                                                           |
| IMDG        | International Maritime Dangerous Goods Code                                                                                                                                       |
| IMDG-Code   | 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                                                          |
| IOELV       | Indicative occupational exposure limit value                                                                                                                                      |
| 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 RE     | Specific target organ toxicity - repeated exposure                                                                                                                                |
| STOT SE     | Specific target organ toxicity - single exposure                                                                                                                                  |

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| Abbr. | Descriptions of used abbreviations                                                     |
|-------|----------------------------------------------------------------------------------------|
| 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                                                               |
|------|--------------------------------------------------------------------|
| H225 | Highly flammable liquid and vapour.                                |
| H226 | Flammable liquid and vapour.                                       |
| H302 | Harmful if swallowed.                                              |
| H304 | May be fatal if swallowed and enters airways.                      |
| H315 | Causes skin irritation.                                            |
| H317 | May cause an allergic skin reaction.                               |
| H318 | Causes serious eye damage.                                         |
| H319 | Causes serious eye irritation.                                     |
| H335 | May cause respiratory irritation.                                  |
| H336 | May cause drowsiness or dizziness.                                 |
| H351 | Suspected of causing cancer.                                       |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects.                   |
| H413 | May cause long lasting harmful effects to aquatic life.            |

### 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.