

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 18 May 2022

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## HeCool PGL Premixed

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

#### 1.1. Product identifier

Trade name/designation:

HeCool PGL Premixed

UFI:

TGM3-5Y5A-6G90-V6G7

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

Use of the substance/mixture:

Antifreeze agent

#### 1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

**HWU Lubtec GmbH & Co. KG**

Rahdener Str. 164

32312 Lübbecke

Germany

Telephone: +49 5741 34490

E-mail: info@hwu-lubtec.de

Website: www.hwu-lubtec.de

#### 1.4. Emergency telephone number

Giftinformationszentrale Göttingen, 24h: 0049 (0) 551 19240

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

| Hazard classes and hazard categories          | Hazard statements  | Classification procedure |
|---|--|--------------------------|
| Acute toxicity (oral) ( <i>Acute Tox. 4</i> ) | H302: Harmful if swallowed.  |                          |
| STOT-repeated exposure ( <i>STOT RE 2</i> )   | H373: May cause damage to organs through prolonged or repeated exposure. |                          |

#### 2.2. Label elements

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

Hazard pictograms:



**GHS08**

Health hazard



**GHS07**

Exclamation mark

Signal word: Warning

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### Hazard components for labelling:

ethane-1,2-diol

#### Hazard statements for health hazards

|      |  |
|------|--|
| H302 | Harmful if swallowed.  |
| H373 | May cause damage to kidneys through prolonged or repeated exposure if inhaled. |

#### Precautionary statements Prevention

|      |   |
|------|---|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.    |
| P270 | Do not eat, drink or smoke when using this product. |

#### Precautionary statements Response

|             |  |
|-------------|--|
| P301 + P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P314        | Get medical advice/attention if you feel unwell.                           |
| P330        | Rinse mouth.   |

#### Precautionary statements Disposal

|      |   |
|------|---|
| P501 | Dispose of contents/container to Dispose of waste according to applicable legislation.. |
|------|---|

### Additional information:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers  | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP]  | Concentration         |
|--|---|-----------------------|
| CAS No.: 107-21-1<br>EC No.: 203-473-3<br>REACH No.:<br>01-2119456816-28   | <b>ethane-1,2-diol</b><br>Acute Tox. 4 (H302), STOT RE 2 (H373)<br><b>Warning</b> | 30 - < 60<br>weight-% |
| CAS No.: 17265-14-4<br>EC No.: 241-300-3<br>REACH No.:<br>01-2120762063-61 | <b>disodium sebacate</b><br>Eye Irrit. 2 (H319)<br><b>Warning</b>                 | 1 - < 3<br>weight-%   |

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation:

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Remove/Take off immediately all contaminated clothing. In case of skin reactions, consult a physician.

#### After eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

#### Following ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Observe risk of aspiration if vomiting occurs. Get medical advice/attention if you feel unwell.

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

Following inhalation: May cause respiratory irritation. Symptoms: Cough. Dizziness. Nausea. Ingestion causes nausea, weakness and central nervous system effects. May cause damage to kidneys through prolonged or repeated exposure if swallowed.

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

alcohol resistant foam. Extinguishing powder. Water spray jet.

#### Unsuitable extinguishing media:

Full water jet.

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

In case of fire: Gases/vapours, toxic.

### 5.3. Advice for firefighters

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Use personal protection equipment. Use appropriate respiratory protection. Special danger of slipping by leaking/spilling product.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Wear personal protection equipment (refer to section 8).

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

#### For cleaning up:

Take up mechanically, placing in appropriate containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information:

Prevent spread over a wide area (e.g. by containment or oil barriers).

### 6.4. Reference to other sections

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8). Provide adequate ventilation.

Put lids on containers immediately after use.

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### Fire prevent measures:

Usual measures for fire prevention.

### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Used working clothes should not be worn outside the work area. Wash contaminated clothing before reuse.

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

#### Technical measures and storage conditions:

Keep/Store only in original container. Keep container tightly closed in a cool, well-ventilated place.

#### Hints on storage assembly:

Do not store together with: Oxidizing agent.

Keep away from: Food and feedingstuffs.

**Storage class (TRGS 510, Germany):** 10 - Combustible liquids that cannot be assigned to any of the above storage classes

#### Further information on storage conditions:

Temperature control required. Keep container tightly closed.

Protect against: Light. UV-radiation/sunlight. Air.

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name  | ① Long-term occupational exposure limit value<br>② Short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|--------------------------------------|---|--|
| TRGS 900 (DE)                        | ethane-1,2-diol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 10 ppm (26 mg/m <sup>3</sup> )<br>② 20 ppm (52 mg/m <sup>3</sup> )<br>⑤ (Aerosol und Dampf, kann über die Haut aufgenommen werden)   |
| IOELV (EU)                           | ethane-1,2-diol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | ① 20 ppm (52 mg/m <sup>3</sup> )<br>② 40 ppm (104 mg/m <sup>3</sup> )<br>⑤ (may be absorbed through the skin)  |

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

| Substance name  | DNEL value           | ① DNEL type<br>② Exposure route                            |
|---|----------------------|--|
| ethane-1,2-diol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 35 mg/m <sup>3</sup> | ① DNEL worker<br>② Long-term - inhalation, local effects   |
| ethane-1,2-diol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 7 mg/m <sup>3</sup>  | ① DNEL Consumer<br>② Long-term - inhalation, local effects |
| ethane-1,2-diol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 106 mg/kg            | ① DNEL worker<br>② Long-term - dermal, systemic effects    |
| ethane-1,2-diol<br>CAS No.: 107-21-1<br>EC No.: 203-473-3 | 53 mg/kg             | ① DNEL worker<br>② Long-term - dermal, systemic effects    |

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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Provide adequate ventilation.

#### 8.2.2. Personal protection equipment



##### Eye/face protection:

Safety goggles with side protection. In case of increased risk add protective face shield. DIN EN 166.

##### Skin protection:

Tested protective gloves must be worn (EN ISO 374).

Suitable material: NBR (Nitrile rubber).

Thickness of the glove material: > 0,4 mm. Breakthrough time: > 480 min.

Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Suitable protective clothing: flame-resistant.

##### Respiratory protection:

Respiratory protection necessary at: high concentrations, prolonged exposure. Suitable respiratory protection apparatus: Combination filtering device.

(EN 14387 Type A-P2).

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state: Liquid

Colour: pink

Odour: not determined

#### Safety relevant basis data

| Parameter                                    | Value                   | at °C | ① Method<br>② Remark       |
|--|-------------------------|-------|----------------------------|
| pH   | 8                       |       | ① ASTM D1287               |
| Melting point                                | <i>not determined</i>   |       |                            |
| Freezing point                               | <i>not determined</i>   |       |                            |
| Initial boiling point and boiling range      | 108 °C                  |       | ① ASTM D1120<br>② 1013 hPa |
| Decomposition temperature                    | <i>not determined</i>   |       |                            |
| Flash point                                  | <i>not determined</i>   |       |                            |
| Evaporation rate                             | <i>not determined</i>   |       |                            |
| Auto-ignition temperature                    | <i>not determined</i>   |       |                            |
| Upper/lower flammability or explosive limits | <i>not determined</i>   |       |                            |
| Vapour pressure                              | ≈ 17 mbar               | 20 °C | ② estimated                |
| Vapour density                               | <i>not determined</i>   |       |                            |
| Density                                      | 1.073 g/cm <sup>3</sup> | 20 °C | ① DIN 51757                |
| Relative density                             | <i>not determined</i>   |       |                            |
| Bulk density                                 | <i>not determined</i>   |       |                            |
| Water solubility                             | miscible                |       |                            |

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| Parameter                              | Value                  | at °C | ① Method<br>② Remark |
|--|------------------------|-------|----------------------|
| Partition coefficient: n-octanol/water | <i>not determined</i>  |       |                      |
| Dynamic viscosity                      | <i>not determined</i>  |       |                      |
| Kinematic viscosity                    | ≈ 4 mm <sup>2</sup> /s | 20 °C | ① DIN 51562          |

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 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

Oxidising agent, strong. Alkali metals.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

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

|  |
|--|
| <b>ethane-1,2-diol</b> CAS No.: 107-21-1 EC No.: 203-473-3     |
| <b>LD<sub>50</sub> oral:</b> 4,700 mg/kg (Rat)                 |
| <b>LD<sub>50</sub> dermal:</b> 10,600 mg/kg (Rat)              |
| <b>disodium sebacate</b> CAS No.: 17265-14-4 EC No.: 241-300-3 |
| <b>LD<sub>50</sub> oral:</b> >5,000 mg/kg                      |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg                    |

#### Acute oral toxicity:

May cause damage to kidneys through prolonged or repeated exposure if swallowed.

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

Based on available data, the classification criteria are not met.  
slightly irritant but not relevant for classification.

#### Serious eye damage/irritation:

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

#### Respiratory or skin sensitisation:

May cause sensitisation especially in sensitive humans.

#### Germ cell mutagenicity:

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

#### Carcinogenicity:

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

#### Reproductive toxicity:

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

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### STOT-single exposure:

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

### STOT-repeated exposure:

Causes damage to kidneys through prolonged or repeated exposure if swallowed.

### Aspiration hazard:

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

### Additional information:

Harmful if swallowed or if inhaled.

### 11.2. Information on other hazards

#### Endocrine disrupting properties:

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

|  |
|--|
| <b>ethane-1,2-diol</b> CAS No.: 107-21-1 EC No.: 203-473-3 |
|--|

|   |
|---|
| <b>LC<sub>50</sub></b> : 41,000 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> (Rainbow trout)) |
|---|

|   |
|---|
| <b>EC<sub>50</sub></b> : 46,300 mg/L 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) |
|---|

#### Additional ecotoxicological information:

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

### 12.2. Persistence and degradability

|  |
|--|
| <b>ethane-1,2-diol</b> CAS No.: 107-21-1 EC No.: 203-473-3 |
|--|

|                          |
|--------------------------|
| <b>Biodegradation:</b> — |
|--------------------------|

|  |
|--|
| <b>Remark:</b> Readily biodegradable (according to OECD criteria). |
|--|

#### Additional information:

> 70% DOC reduction (28d) (OECD 301A). Readily biodegradable (according to OECD criteria).

### 12.3. Bioaccumulative potential

|  |
|--|
| <b>ethane-1,2-diol</b> CAS No.: 107-21-1 EC No.: 203-473-3 |
|--|

|                                   |
|-----------------------------------|
| <b>Log K<sub>ow</sub></b> : -1.93 |
|-----------------------------------|

#### Accumulation / Evaluation:

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

|  |
|--|
| <b>ethane-1,2-diol</b> CAS No.: 107-21-1 EC No.: 203-473-3 |
|--|

|   |
|---|
| <b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
|---|

|  |
|--|
| <b>disodium sebacate</b> CAS No.: 17265-14-4 EC No.: 241-300-3 |
|--|

|   |
|---|
| <b>Results of PBT and vPvB assessment:</b> This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
|---|

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

No information available.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

|            |   |
|------------|---|
| 16 01 14 * | antifreeze fluids containing hazardous substances |
|------------|---|

\*: Evidence for disposal must be provided.

#### Waste treatment options

##### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

##### Appropriate disposal / Package:

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

| Land transport (ADR/RID)                                   | Inland waterway craft (ADN)                                | Sea transport (IMDG)                                       | Air transport (ICAO-TI / IATA-DGR)                         |
|--|--|--|--|
| <b>14.1. UN number or ID number</b>                        |  |  |  |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| <b>14.2. UN proper shipping name</b>                       |  |  |  |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| <b>14.3. Transport hazard class(es)</b>                    |  |  |  |
| not relevant   | not relevant   | not relevant   | not relevant   |
| <b>14.4. Packing group</b>                                 |  |  |  |
| not relevant   | not relevant   | not relevant   | not relevant   |
| <b>14.5. Environmental hazards</b>                         |  |  |  |
| not relevant   | not relevant   | not relevant   | not relevant   |
| <b>14.6. Special precautions for user</b>                  |  |  |  |
| not relevant   | not relevant   | not relevant   | not relevant   |

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

not relevant.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Restrictions on use:

Use restriction according to REACH annex XVII, no.: 3.

##### Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]: No information available.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: No information available.

Observe in addition any national regulations!

#### 15.1.2. National regulations

##### [DE] National regulations

##### Störfallverordnung

##### for substances contained in the product:

This product is not assigned to a hazard category.



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### Water hazard class

**WGK:**

1 - schwach wassergefährdend

**Remark:**

Self-classification (mixture; calculation rule).

### 15.2. Chemical Safety Assessment

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

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC<sub>50</sub>: Lethal concentration, 50 percent

LD<sub>50</sub>: Lethal dose, 50 percent

NIOSH: National Institute of Occupational Safety and Health

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OEL: Occupational Exposure limit (Arbeitsplatzgrenzwert)

OSHA: Occupational Safety and Health Administration

PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)

PBT: persistent bioaccumulative toxic

PNEC: predicted no effect concentration

REL: Recommended exposure limit (Empfohlene Expositionsgrenze)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)

SVHC: substance of very high concern

TLV: Threshold Limit Values (Schwellwert Grenzwerte)

TRGS Technische Regeln für Gefahrstoffe

TSCA: Toxic Substances Control Act

TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)

VOC: Volatile Organic Compounds

vPvB: very persistent and very bioaccumulative

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

### 16.3. Key literature references and sources for data

No data available

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### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories          | Hazard statements  | Classification procedure |
|---|--|--------------------------|
| Acute toxicity (oral) ( <i>Acute Tox. 4</i> ) | H302: Harmful if swallowed.  |                          |
| STOT-repeated exposure ( <i>STOT RE 2</i> )   | H373: May cause damage to organs through prolonged or repeated exposure. |                          |

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

| Hazard statements |  |
|-------------------|--|
| H302              | Harmful if swallowed.  |
| H319              | Causes serious eye irritation.                                     |
| H373              | May cause damage to organs through prolonged or repeated exposure. |

### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.