# Safety Data Sheet
**according to Regulation (EC) No. 1907/2006 (REACH)**
**according to Regulation (EU) 2020/878**



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

1.1. **Product identifier**

Article No. (manufacturer/supplier): 2 04921 00000
Trade name/designation: epple-quick 4921
Adhesive
UFI: CGE0-N04E-E003-PMKT

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

**Relevant identified uses**
UV-hardening product to the gluing or capping

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

**supplier (manufacturer/importer/downstream user/distributor)**

E. Epple & Co. GmbH
Hertzstr. 8
71083 Herrenberg

Telephone: +49 7032 / 9771-17
Telefax: +49 7032 / 9771-60
www.epple-chemie.de

**Department responsible for information:**
laboratory
E-mail (competent person): labor@epple-chemie.de

1.4. **Emergency telephone number**
Information center against poisoning Bonn: +49 (0) 228 / 19 240 (Advice in German)

## SECTION 2: Hazards identification

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

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

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

| | | |
|---|---|---|
| Acute Tox. 4 / H302 | Acute toxicity (oral) | Harmful if swallowed. |
| Skin Corr. 1A / H314 | Skin corrosion/irritation | Causes severe skin burns and eye damage. |
| Eye Dam. 1 / H318 | Serious eye damage/eye irritation | Causes serious eye damage. |
| STOT SE 3 / H335 | STOT-single exposure | May cause respiratory irritation. |

2.2. **Label elements**

The product is classified and labelled according to EC directives or corresponding national laws.

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

**Hazard pictograms**

**Danger**

**Hazard statements**

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H335 | May cause respiratory irritation. |

**Precautionary statements**

| | |
|---|---|
| P260 | Do not breathe vapour. |
| P280 | Wear protective gloves. |
| P301 + P330 + P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting. |
| P363 | Wash contaminated clothing before reuse. |
| P501 | Dispose of contents/container in accordance with local/regional/ national/international regulations. |

**Hazard components for labelling**
methacrylic acid

**Supplemental hazard information**
EUH208 Contains Phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxid. May produce an allergic reaction.

2.3. **Other hazards**

No information available.

## SECTION 3: Composition/information on ingredients

3.2. **Mixtures**

**Description** acrylate

**Hazardous ingredients**

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

| EC No.<br>CAS No.<br>Index No. | REACH No.<br>Designation<br>classification: // Remark | weight-% |
|---|---|---|
| 201-204-4<br>79-41-4<br>607-088-00-5 | 01-2119463884-26<br>methacrylic acid<br>Acute Tox. 4 H312 / Acute Tox. 4 H302 / Skin Corr. 1A H314<br>Specific concentration limit (SCL): STOT SE 3 H335 >= 1 | 24,9 - 49,9 |
| 231-272-0<br>7473-98-5 | 01-2119472306-39<br>2-hydroxy-2-methylpropiophenone<br>Acute Tox. 4 H302<br>Acute toxicity estimate (ATE): ATE (oral): 1694 mg/kg bw | 2,4 - 9,9 |
| 201-254-7<br>80-15-9<br>617-002-00-8 | 01-2119475796-19<br>α,α-dimethylbenzyl hydroperoxide<br>Org. Perox. E H242 / Acute Tox. 3 H331 / Acute Tox. 4 H312 / Acute Tox. 4 H302 / STOT RE 2 H373 / Skin Corr. 1B H314 / Aquatic Chronic 2 H411<br>Specific concentration limit (SCL): Skin Corr. 1B H314 >= 10 / Skin Irrit. 2 H315 >= 3 / Eye Dam. 1 H318 >= 3 / Eye Irrit. 2 H319 >= 1 / STOT SE 3 H335 >= 1<br>Acute toxicity estimate (ATE): ATE (oral): 382 mg/kg bw / ATE (inhalation, vapour): 1,37 mg/L | 0,9 - 2,4 |
| 423-340-5<br>162881-26-7 | 01-2119489401-38<br>Phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxid<br>Skin Sens. 1 H317 / Aquatic Chronic 4 H413 | 0,1 - 0,9 |

**Additional information**
Full text of classification: see section 16

## SECTION 4: First aid measures

4.1. **Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

**In case of inhalation**
Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners. Following skin contact
Conditions to avoid UV-radiation/sunlight
Causes mild skin irritation.

**After eye contact**
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

**Following ingestion**
If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. **Most important symptoms and effects, both acute and delayed**
In all cases of doubt, or when symptoms persist, seek medical advice.

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, carbon dioxide fire blanket, Powder, spray mist, (water)

**Unsuitable extinguishing media**
strong water jet

5.2. **Special hazards arising from the substance or mixture**
Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. **Advice for firefighters**
Provide a conveniently located respiratory protective device.

**Additional information**
Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**
Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. **Environmental precautions**
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. **Methods and material for containment and cleaning up**
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. **Reference to other sections**
Observe protective provisions (see section 7 and 8).

## SECTION 7: Handling and storage

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used.

7.1. **Precautions for safe handling**

**Advices on safe handling**

Use only in well-ventilated areas. Keep away from heat sources, sparks and open flames. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

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

**Requirements for storage rooms and vessels**
Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

**Hints on joint storage**
Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**
Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Keep only in the original container.

7.3. **Specific end use(s)**
Observe technical data sheet.Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**
**Occupational exposure limit values**

methacrylic acid
Index No. 607-088-00-5 / EC No. 201-204-4 / CAS No. 79-41-4

TWA: 72 mg/m3; 20 ppm
STEL: 143 mg/m3; 40 ppm

**Additional information**
TWA : Long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

**DNEL:**

α,α-dimethylbenzyl hydroperoxide
Index No. 617-002-00-8 / EC No. 201-254-7 / CAS No. 80-15-9
DNEL long-term inhalative (systemic), Workers: 6 mg/m³

**PNEC:**

α,α-dimethylbenzyl hydroperoxide
Index No. 617-002-00-8 / EC No. 201-254-7 / CAS No. 80-15-9
PNEC aquatic, freshwater: 0,0031 mg/L
PNEC aquatic, marine water: 0,0003 mg/L
PNEC aquatic, intermittent release: 0,031 mg/L
PNEC sediment, freshwater: 0,023 mg/kg
PNEC sediment, marine water: 0,0023 mg/kg
PNEC, soil: 0,0029 mg/kg
PNEC sewage treatment plant (STP): 0,35 mg/L

8.2. **Exposure controls**
Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

**Personal protection equipment**

**Respiratory protection**
If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

**Hand protection**
For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)
Thickness of the glove material > 0,4 mm ; Breakthrough time: > 480 min.
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

**Eye/face protection**
Wear closely fitting protective glasses in case of splashes.

**Body protection**
Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures**
After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**
Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state:** | **Liquid** |
| **Appearance:** | **Liquid** |
| **Colour:** | **translucent** |
| **Odour:** | **characteristic** |
| **Odour threshold:** | **not applicable** |
| **Melting point/freezing point:** | **< -30 °C**<br>Source: α,α-dimethylbenzyl hydroperoxide |

| | |
|---|---|
| **Initial boiling point and boiling range:** | **not applicable** |
| **Flammability:** | **Combustible liquid.** |
| **Lower and upper explosion limit:** | |
| **Lower explosion limit:** | **not applicable** |
| **Upper explosion limit:** | **not applicable** |
| **Flash point:** | **65 °C** |
| **Auto-ignition temperature:** | **not applicable** |
| **Decomposition temperature:** | **not applicable** |
| **pH at 20 °C:** | **not relevant** |
| **Cinematic viscosity (40°C):** | **1785,71 mm²/s** |
| **Viscosity at 20 °C:** | **1 - 3 Pa*s** |
| **Solubility(ies):** | |
| **Water solubility at 20 °C:** | **insoluble** |
| **Partition coefficient: n-octanol/water:** | **see section 12** |
| **Vapour pressure at 20 °C:** | **not applicable** |
| **Density and/or relative density:** | |
| **Density at 20 °C:** | **1,12 g/cm³** |
| **Relative vapour density:** | **not applicable** |
| **particle characteristics:** | **not applicable** |

9.2. **Other information**

| | |
|---|---|
| **Solid content:** | **100 weight-%** |
| **solvent content:** | |
| **Organic solvents:** | **0 weight-%** |
| **Water:** | **0 weight-%** |
| **Solvent separation test:** | **< 3 weight-% (ADR/RID)** |

## SECTION 10: Stability and reactivity

10.1. **Reactivity**
No information available.

10.2. **Chemical stability**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. **Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. **Conditions to avoid**
This preparation contains material instable under the following conditions: Heat, strong ultraviolet radiation. An exotherm polymerization of the product may thereby be caused. Avoid unintended contact with it. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**
not applicable

10.6. **Hazardous decomposition products**
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## SECTION 11: Toxicological information

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

**Acute toxicity**

Harmful if swallowed.

α,α-dimethylbenzyl hydroperoxide
oral, LD50, Rat: 382 mg/kg
dermal, LD50, Rat 530 - 1060 mg/kg
inhalative (vapours), LC50, Rat: 1,37 mg/L (4 h)

2-hydroxy-2-methylpropiophenone
oral, LD50, Rat: 1694 mg/kg
Method: OECD 423
dermal, LD50, Rat: 6929 mg/kg
Method: OECD 402

**Skin corrosion/irritation; Serious eye damage/eye irritation**

Causes severe skin burns and eye damage.

α,α-dimethylbenzyl hydroperoxide
Skin, Rabbit: Evaluation corrosive
Method: Draize test

**Respiratory or skin sensitisation**

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

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

α,α-dimethylbenzyl hydroperoxide
Germ cell mutagenicity; Evaluation positive
Method: OECD 471 (Ames test)

**STOT-single exposure; STOT-repeated exposure**

May cause respiratory irritation.

**Aspiration hazard**

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

**Practical experience/human evidence**

The fractions of acrylic resin in the preparation have an irritant effect. Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness, formation of blebs, dermatitis, etc.. Cases of allergic skin reactions have been observed. Liquid splashes can lead to irritations of the eyes. Inhaling of drolets in the air or aerosols may lead to irritations of the respiratory tract . Ingestion may cause nausea, weakness and affect the central nervous system.

**Overall assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**Remark**

There is no information available on the preparation itself . The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers.See chapters 2 and 15 for details.

11.2. **Information on other hazards**

**Endocrine disrupting properties**
No information available.

## SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
Do not allow to enter into surface water or drains.

12.1. **Toxicity** *

α,α-dimethylbenzyl hydroperoxide
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 3,9 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 18,84 mg/L (48 h)
Method: OECD 202
Algae toxicity, EC50, Pseudokirchneriella subcapitata: 3,1 mg/L (72 h)
Method: OECD 201
Bacteria toxicity, EC10: 70 mg/L (30 min)

2-hydroxy-2-methylpropiophenone
Daphnia toxicity, EC50, Daphnia magna: > 119 mg/L (48 h)
Method: OECD 202
Fish toxicity, LC50:, Leuciscus idus (golden orfe): 160 mg/L (48 h)
Method: DIN 38412 / part 15

**Long-term Ecotoxicity**

α,α-dimethylbenzyl hydroperoxide
Algae toxicity, NOEC, Desmodesmus subspicatus: 1 mg/L (72 h)
Method: OECD 201

12.2. **Persistence and degradability** *

α,α-dimethylbenzyl hydroperoxide
Biodegradation, aerobic.: 3 % (28 d); Evaluation Not readily biodegradable
Method: OECD 301B

12.3. **Bioaccumulative potential** *

α,α-dimethylbenzyl hydroperoxide
Partition coefficient: n-octanol/water: 2,16

**Bioconcentration factor (BCF)**

α,α-dimethylbenzyl hydroperoxide
Bioconcentration factor (BCF): 9,1
Method: OECD 305

12.4. **Mobility in soil**
Toxicological data are not available.

12.5. **Results of PBT and vPvB assessment**
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**

**Appropriate disposal / Product**
**Recommendation**
Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**List of proposed waste codes/waste designations in accordance with EWC**
080409* Waste adhesives and sealants containing organic solvents or other dangerous substances
*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package**
**Recommendation**
Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

14.1. **UN number or ID number**
UN 1760

14.2. **UN proper shipping name**

| | |
|---|---|
| Land transport (ADR/RID): | Corrosive liquid, n.o.s. (methacrylic acid, stabilized) |
| Sea transport (IMDG): | CORROSIVE LIQUID, N.O.S. (methacrylic acid, stabilized) |
| Air transport (ICAO-TI / IATA-DGR): | Corrosive liquid, n.o.s. (methacrylic acid, stabilized) |

14.3. **Transport hazard class(es)**
8

14.4. **Packing group**

| | |
|---|---|
| Land transport (ADR/RID): | III |
| for packages > 450 litres: | II |
| Sea transport (IMDG): | II |
| Air transport (ICAO-TI / IATA-DGR): | II |

14.5. **Environmental hazards**

| | |
|---|---|
| Land transport (ADR/RID) | not applicable |

| | |
|---|---|
| Marine pollutant | not applicable |

14.6. **Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

**Further information**

**Land transport (ADR/RID)**

| | |
|---|---|
| Tunnel restriction code | E |

**Sea transport (IMDG)**

| | |
|---|---|
| EmS-No. | F-A, S-B |

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

No transport as bulk according IBC - Code.

## SECTION 15: Regulatory information

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

**EU legislation**

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**
VOC-value (in g/L): 5

**National regulations**

**Restrictions of occupation**
Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

**Substance/product listed in the following inventories:**
AICS no informtion
DSL no information
EHS no information
IECSC no information
KECI no information
MITI no information
NZLoC no information
PICCS no information
TCSI no information
TSCA no information

15.2. **Chemical Safety Assessment**
**For the following substances of this mixture a chemical safety assessment has been carried out:**

| EC No.<br>CAS No. | Designation | REACH No. |
|---|---|---|
| 201-204-4<br>79-41-4 | methacrylic acid | 01-2119463884-26 |
| 231-272-0<br>7473-98-5 | 2-hydroxy-2-methylpropiophenone | 01-2119472306-39 |
| 201-254-7<br>80-15-9 | α,α-dimethylbenzyl hydroperoxide | 01-2119475796-19 |
| 423-340-5<br>162881-26-7 | Phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxid | 01-2119489401-38 |

## SECTION 16: Other information

**Full text of classification in section 3:**

| | | |
|---|---|---|
| Acute Tox. 4 / H312 | Acute toxicity (dermal) | Harmful in contact with skin. |
| Acute Tox. 4 / H302 | Acute toxicity (oral) | Harmful if swallowed. |
| Skin Corr. 1A / H314 | Skin corrosion/irritation | Causes severe skin burns and eye damage. |
| Org. Perox. E / H242 | Organic peroxides | Heating may cause a fire. |
| Acute Tox. 3 / H331 | Acute toxicity (inhalative) | Toxic if inhaled. |

| | | |
|---|---|---|
| STOT RE 2 / H373 | STOT-repeated exposure | May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard). |
| Skin Corr. 1B / H314 | Skin corrosion/irritation | Causes severe skin burns and eye damage. |
| Aquatic Chronic 2 / H411 | Hazardous to the aquatic environment | Toxic to aquatic life with long lasting effects. |
| Skin Sens. 1 / H317 | Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| Aquatic Chronic 4 / H413 | Hazardous to the aquatic environment | May cause long lasting harmful effects to aquatic life. |

**Classification procedure**

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

| | | |
|---|---|---|
| Acute Tox. 4 | Acute toxicity (oral) | Calculation method. |
| Skin Corr. 1A | Skin corrosion/irritation | Calculation method. |
| Eye Dam. 1 | Serious eye damage/eye irritation | Calculation method. |
| STOT SE 3 | STOT-single exposure | Calculation method. |

**Abbreviations and acronyms**

| | |
|---|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| OEL | Occupational Exposure Limit Value |
| BLV | Biological Limit Value |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging |
| CMR | Carcinogenic, Mutagenic and Reprotoxic |
| DIN | German Institute for Standardization / German industrial standard |
| DNEL | Derived No-Effect Level |
| EAKV | European Waste Catalogue Directive |
| EC | Effective Concentration |
| EC | European Community |
| EN | European Standard |
| IATA-DGR | International Air Transport Association – Dangerous Goods Regulations |
| IBC Code | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| ICAO-TI | International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air |
| IMDG Code | International Maritime Code for Dangerous Goods |
| ISO | International Organization for Standardization |
| LC | Lethal Concentration |
| LD | Lethal Dose |
| MARPOL | Maritime Pollution: The International Convention for the Prevention of Pollution from Ships |
| OECD | Organisation for Economic Cooperation and Development |
| PBT | persistent, bioaccumulative, toxic |
| PNEC | Predicted No Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| UN | United Nations |
| VOC | Volatile Organic Compounds |
| vPvB | very persistent and very bioaccumulative |

**Further information**

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations.Without written approval, the product must not be used for purposes different from those mentioned in section 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations.The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version