

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

### 1.1 Product identifier

#### Trade name/designation

PG1-200 griwecolor Plaster primer  
white

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

#### Relevant identified uses

see as in techn. data sheet

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

#### Supplier

griwecolor GmbH  
Wieselbrunnen 2 Telephone: +49 7707 9904-0  
78199 Bräunlingen E-mail: info@griwecolor.de  
Germany

#### Department responsible for information

E-mail (competent person) info@griwecolor.de

### 1.4 Emergency telephone number

Emergency telephone number: +49 7707 99040  
Only available during office hours.

## 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 not hazardous according to regulation (EC) No 1272/2008 [CLP].

### 2.2 Label elements

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

#### Hazard pictograms

not applicable

#### Signal word

not applicable

#### Hazard statements

not applicable

#### Precautionary statements

not applicable

#### Hazard components for labelling

not applicable

#### Supplemental hazard information

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.  
EUH210 Safety data sheet available on request.  
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 2.3 Other hazards

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

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### SECTION 3: Composition/information on ingredients.

#### 3.2 Mixtures

##### Description

waterbased Dispersion

##### Hazardous ingredients

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	% [mass]
* 14808-60-7 238-878-4 -	<b>GEBA-Feinstk.-Quarzs.0.06-0.3</b> Substance with a common (EC) occupational exposure limit value.	8,00 < 10,0
* 14808-60-7 238-878-4 -	<b>Quartz (SiO<sub>2</sub>)</b> Substance with a common (EC) occupational exposure limit value.	3,00 < 5,00
* 2634-33-5 220-120-9 613-088-00-6	<b>1,2-benzisothiazol-3(2H)-one</b> 01-2120761540-60 Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Skin Sens. 1A H317 / Eye Dam. 1 H318 / Acute Tox. 2 H330 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410 Specific concentration limit (SCL): Skin Sens. 1 H317: >= 0,036	0,025 < 0,050
* 55965-84-9 - 613-167-00-5	<b>reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)</b> Acute Tox. 3 H301 / Acute Tox. 2 H310 / Skin Corr. 1C H314 / Skin Sens. 1A H317 / Eye Dam. 1 H318 / Acute Tox. 2 H330 / Aquatic Acute 1 H400 (M = 100,00 ) / Aquatic Chronic 1 H410 (M = 100,00 ) / EUH071 Specific concentration limit (SCL): Eye Irrit. 2 H319: >= 0,06 / Skin Sens. 1A H317: >= 0,0015 / Eye Dam. 1 H318: >= 0,60 / Skin Irrit. 2 H315: >= 0,06 / Skin Corr. 1C H314: >= 0,60	< 0,025
* 2682-20-4 220-239-6 613-326-00-9	<b>2-methylisothiazol-3(2H)-one</b> Acute Tox. 3 H301 / Acute Tox. 3 H311 / Skin Corr. 1B H314 / Skin Sens. 1A H317 / Eye Dam. 1 H318 / Acute Tox. 2 H330 / Aquatic Acute 1 H400 (M = 10,00 ) / Aquatic Chronic 1 H410 (M = 1,00 ) / EUH071 Specific concentration limit (SCL): Skin Sens. 1A H317: >= 0,0015	< 0,025

##### Remark

Full text of H- and EUH-statements: 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.

##### Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

##### 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.

##### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

##### **Symptoms**

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 (CO<sub>2</sub>), Powder, spray mist, (water)

##### **Unsuitable extinguishing media**

Strong water jet

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

- \* Smoke arises in a fire. Inhaling hazardous decomposing products can cause serious health damage.

##### **Hazardous combustion products**

- \* Hazardous combustion products: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, smoke, Nitrogen oxides (NO<sub>x</sub>).

#### **5.3 Advice for firefighters**

Provide a conveniently located respiratory protective device. 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**

##### **For containment**

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).

##### **For cleaning up**

Clean using cleansing agents. Do not use solvents.

#### **6.4 Reference to other sections**

- \* Safe handling: see section 7  
Personal protection equipment: refer to section 8  
Disposal: see section 13

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

##### **Advices on safe handling**

- \* Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. Personal protection equipment: see 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.

##### **Advices on general occupational hygiene**

When using do not eat, drink or smoke.

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## 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.

### Storage class

LGK12 - non-combustible liquids that cannot be assigned to any of the above storage classes

### Further information on storage conditions

- \* Keep container tightly closed. Smoking is forbidden. Store carefully closed containers upright to prevent any leaks. Protect from heat and direct sunlight. Protect from frost. Take care of instructions on label.

## 7.3 Specific end use(s)

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
* 14808-60-7	GEBA-Feinstk.-Quarzs.0.06-0.3	WEL	0.1 / - (-) mg/m <sup>3</sup> (respirable crystalline silica)
* 12001-26-2	Glimmer GHL 144	WEL	10 / - (-) mg/m <sup>3</sup> (inhalable fraction)
* 12001-26-2	Glimmer GHL 144	WEL	0.8 / - (-) mg/m <sup>3</sup> (respirable fraction)
* 14808-60-7	Quartz (SiO <sub>2</sub> )	WEL	0.1 / - (-) mg/m <sup>3</sup> (respirable crystalline silica)
* 1317-65-3	Violett Etikette	WEL	10 / - (-) mg/m <sup>3</sup> (inhalable fraction)
* 1317-65-3	Violett Etikette	WEL	4 / - (-) mg/m <sup>3</sup> (respirable fraction)
* 1317-65-3	natural calcium carbonate	WEL	10 / - (-) mg/m <sup>3</sup> (inhalable fraction)
* 1317-65-3	natural calcium carbonate	WEL	4 / - (-) mg/m <sup>3</sup> (respirable fraction)
* 13463-67-7	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	WEL	4 / - (-) mg/m <sup>3</sup> (respirable fraction)
* 13463-67-7	titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	WEL	10 / - (-) mg/m <sup>3</sup> (inhalable fraction)

#### Additional information

Long-term: Long-term occupational exposure limit value

short-term: short-term occupational exposure limit value

#### Biological limit values

No data available

#### DNEL worker

CAS No.	Substance name	DNEL type	DNEL value
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2634-33-5	1,2-benzisothiazol-3(2H)-one	DNEL long-term dermal (systemic)	0.966 mg/kg
2634-33-5	1,2-benzisothiazol-3(2H)-one	DNEL long-term inhalative (systemic)	6.81 mg/m <sup>3</sup>
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	DNEL acute inhalative (local)	0.04 mg/m <sup>3</sup>
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	DNEL long-term inhalative (local)	0.02 mg/m <sup>3</sup>

#### DNEL Consumer

CAS No.	Substance name	DNEL type	DNEL value
2634-33-5	1,2-benzisothiazol-3(2H)-one	DNEL long-term inhalative (systemic)	1.2 mg/m <sup>3</sup>
2634-33-5	1,2-benzisothiazol-3(2H)-one	DNEL long-term dermal (systemic)	0.345 mg/kg
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	DNEL acute inhalative (local)	0.04 mg/m <sup>3</sup>
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	DNEL long-term inhalative (local)	0.02 mg/m <sup>3</sup>
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	DNEL long-term oral (repeated)	0.09 mg/kg
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	DNEL short-term oral (acute)	0.11 mg/kg

#### PNEC

CAS No.	Substance name	PNEC type	PNEC Value
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	PNEC soil, freshwater	0.01 mg/kg
55965-84-9	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	PNEC aquatic, freshwater	0.004 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. Use only respiratory protection equipment with CE-symbol including four digit test number.

#### Hand protection

Suitable material: NBR (Nitrile rubber)  
Thickness of the glove material  $\geq$  0.4 mm  
Breakthrough time  $\geq$  480 min

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. 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

#### **Skin protection**

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### **Eye/face protection**

Eye glasses with side protection: EN 166

#### **Body protection**

- \* When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Anti-static clothing including shoes are recommended.

#### **Remark**

- \* 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. Lay down a sheet under the work area when painting or spraying (for outdoor work). Collect the cleaning water and dispose of it in a regulated manner. See section 7 of the safety data sheet.

## **Section 9 - Physical and chemical properties**

### **9.1 Basic physical and chemical properties**

Physical state	Liquid
Colour	refer to label
Odour	characteristic
Odour threshold	not determined
pH at 20 °C (100%)	7 - 8.8
Melting point/freezing point	not determined
Initial boiling point and boiling range	> 35 °C
Flash point	not applicable
Flammability	not applicable
Lower explosion limit at 20°C	not determined
Upper explosion limit at 20°C	not determined
Vapour pressure at 20 °C	not determined
Relative vapour density	not applicable
Density at 20 °C	1.55 kg/l
Water solubility at 20°C	partially soluble
Partition coefficient n-octanol/water (DE)	see section 12
Auto-ignition temperature	not determined
Decomposition temperature	not determined
Kinematic viscosity at 20 °C	thixotropic
Dynamic viscosity	50-55dPas/Sp1/20°C
particle characteristics	not applicable

### **9.2 Other information**

not applicable

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No specific test data related to reactivity available for this product or its ingredients.

### **10.2 Chemical stability**

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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

\* Not applicable.

### 10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

## SECTION 11: Toxicological information

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

#### Acute toxicity

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

#### \* 1,2-benzisothiazol-3(2H)-one

approximate LD50 oral (Rat): = 450 mg/kg

#### 2-methylisothiazol-3(2H)-one

LD50: oral (Rat): 120 mg/kg

LD50: dermal (Rat): 300 mg/kg

LC50: inhalative (Rat): 0.134 mg/L (4 h)

#### Skin corrosion/irritation

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

#### Serious eye damage/eye irritation

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

#### Respiratory or skin sensitisation

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

#### Overall assessment on CMR properties

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

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

#### Practical experience/human evidence

\* Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## SECTION 12: Ecological information

### 12.1 Toxicity

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

\* **1,2-benzisothiazol-3(2H)-one**

\* **Algae toxicity**

ErC50: (*Selenastrum capricornutum*): 0.11 mg/L (72 h)

**reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)**

ErC50: (*Pseudokirchneriella subcapitata*): = 0.048 mg/L

**Daphnia toxicity**

\* **1,2-benzisothiazol-3(2H)-one**

EC50 (*Daphnia pulex* (water flea)): = 0.413 mg/L (48 h)

**reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)**

EC50 = 0.1 mg/L (48 h)

**Fish toxicity**

\* **1,2-benzisothiazol-3(2H)-one**

LC50: (*Oncorhynchus mykiss* (Rainbow trout)): = 2.2 mg/L (96 h)

### 12.2 Persistence and degradability

**1,2-benzisothiazol-3(2H)-one**

\* Biodegradation (0.04 d )

Method: OECD 307

**reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)**

Biodegradation = 60 %

### 12.3 Bioaccumulative potential

**1,2-benzisothiazol-3(2H)-one**

\* Bioconcentration factor (BCF) = 6.95

Method: OECD 305

\* Partition coefficient: n-octanol/water = 0.7

Method: OECD 117

### 12.4 Mobility in soil

**1,2-benzisothiazol-3(2H)-one**

\* Soil-Water = 1.15

Method: OECD 121

### 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

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product/Packaging disposal**

Only completely emptied containers should be given for recycling. Hardened residues can be disposed of with residual waste.

Liquid paint residues must be disposed of at a hazardous waste collection point or through approved disposal companies. Disposal must be carried out in accordance with official regulations. Synthetic polymer microparticles, which may be present in the wet

material, must not be released into the environment; see Section 15 for details. Must not be disposed of in the sewage system or wastewater. Uncleaned packaging: Non-contaminated packaging can be reused. Packaging that cannot be cleaned must be disposed of in the same manner as the substance. Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

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

080112 - waste paint and varnish other than those mentioned in 08 01 11

**Other disposal recommendations**

- \* Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## SECTION 14: Transport information

### 14.1 UN number or ID number

not applicable

### 14.2 UN proper shipping name

**Land transport (ADR/RID)**

No dangerous good in sense of these transport regulations.

**Sea transport (IMDG)**

No dangerous good in sense of these transport regulations.

**Air transport (ICAO-TI / IATA-DGR)**

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

not applicable

### 14.4 Packing group

not applicable

### 14.5 Environmental hazards

Land transport (ADR/RID) not applicable

Sea transport (IMDG) 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

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

No transport as bulk according to IBC Code.

### 14.8 Additional information

**Land transport (ADR/RID)**

not applicable

**Sea transport (IMDG)**

not applicable

**Air transport (ICAO-TI / IATA-DGR)**

not applicable

## SECTION 15: Regulatory information

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

**EU legislation**

- \* **Authorisations and/or restrictions on use**
- \* **Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)**
- \* Use restriction according to REACH annex XVII, no.: 03

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\* **The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006.**

\* According to the available data, the product does not contain synthetic polymer microparticles.

#### **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.

#### **Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

\* VOC value: 10 g/l

#### \* **Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

\* VOC limit value: 2004/42/IIA(g): 30 g/l (2010)

\* Maximum VOC content of the product in a ready to use condition: 10 g/L

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.

#### \* **Regulation (EU) No. 528/2012 on biocides**

\* biocide, active substance: 1,2-benzisothiazol-3(2H)-one

\* biocide, active substance: 2-methylisothiazol-3(2H)-one

\* biocide, active substance: reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)

#### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

##### **Hazard categories / Named dangerous substances**

This product is not classified according to Directive 2012/18/EU.

#### **National regulations**

Observe in addition any national regulations!

## **15.2 Chemical Safety Assessment**

\* For the following substances of this mixture a chemical safety assessment has been carried out:

<b>REACH No.</b>	<b>Substance name</b>	<b>CAS No. EC No.</b>
* 01-2120761540-60	1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9

## **SECTION 16: Other information**

### **List of relevant hazard statements and/or precautionary statements from sections 2 to 15**

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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

not applicable

### **Key literature references and sources for data**

Data arise from reference works and literature.

### **Abbreviations and acronyms**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL: Occupational Exposure Limit Value

BLV: Biological limit values  
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  
EU/EEA: European Economic Area  
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  
MAK:  
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  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
UN: United Nations  
VOC: Volatile Organic Compounds  
vPvB: very persistent and very bioaccumulative

**Indication of changes**

\* Data changed compared with the previous version.

replaces version: 1.1

replaces revision of: 18 Oct 2024

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.