

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 07.09.2021

Version number 4 (replaces version 3)

Revision: 07.09.2021

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

- **1.1 Product identifier**
  - **Trade name: Fermitan Heizung**
  - **UFI:** HJ10-906G-G00M-R4SP
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
  - **Application of the substance / the mixture** Sealant
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
Fermit GmbH  
Zur Heide 4,  
D- 53560 Vettelschoß  
www.fermit.de
  - **Informing department:**  
Tel.: +49 (0) 2645-2207  
Fax: +49 (0) 2645-3113  
Email: info@fermit.de
- **1.4 Emergency telephone number:** Tel.: +49 (0) 2645-2207

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
 Eye Irrit. 2 H319 Causes serious eye irritation.  
 Skin Sens. 1 H317 May cause an allergic skin reaction.  
 STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
  - **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
Poly(ethylene glycol) dimethacrylate  
maleic acid  
mequinol
- **Hazard statements**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

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- **Precautionary statements**

P102	Keep out of reach of children.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves / eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Mixture of the substances listed below including additives not requiring identification.

- **Dangerous components:**

CAS: 25852-47-5 Polymer	Poly(ethylene glycol) dimethacrylate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	25 - 50%
CAS: 110-16-7 EINECS: 203-742-5 Reg.nr.: 01-2119488705-25-X	maleic acid ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.1 %	≥ 1 - < 2.5%
CAS: 80-15-9 EINECS: 201-254-7 Reg.nr.: 01-2119475796-19-X	α,α -dimethylbenzyl hydroperoxide ⚠ Org. Perox. E, H242; ⚠ Acute Tox. 3, H331; ⚠ STOT RE 2, H373; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 10 % Skin Irrit. 2; H315: 3 % ≤ C < 10 % Eye Dam. 1; H318: C ≥ 3 % Eye Irrit. 2; H319: 1 % ≤ C < 3 % STOT SE 3; H335: C ≥ 10 %	≥ 1 - < 2.5%
CAS: 150-76-5 EINECS: 205-769-8 Reg.nr.: 01-2119541813-40-X	mequinol ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥ 0.1 - < 1%
CAS: 613-48-9 EINECS: 210-345-0	4-(diethylamino)toluene ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ STOT RE 2, H373	≤ 1%

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CAS: 1310-73-2 EINECS: 215-185-5 Reg.nr.: 01-2119457892-27-X	sodium hydroxide ⚠ Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	≥ 0.5 - ≤ 1%
CAS: 99-97-8 EINECS: 202-805-4 Reg.nr.: 01-2119956633-31-X	N,N-dimethyl-p-toluidine ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT RE 2, H373; Aquatic Chronic 3, H412	≤ 1%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · **General information**

Remove contaminated clothing immediately.  
If symptoms occur or in case of doubt consult a doctor.

##### · **After inhalation**

Supply fresh air and call for doctor for safety reasons.  
In case of unsteady breathing or breathing arrest induce artificial respiration.  
In case of unconsciousness bring patient into stable side position for transport.

##### · **After skin contact**

Instantly wash with water and soap and rinse thoroughly.  
Don't use solvents or thinners!

##### · **After eye contact**

Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.

In case of permanent aches and pains please go and see the doctor.

##### · **After swallowing** Rinse mouth and immediately consult physician.

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

No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

##### · **Suitable extinguishing agents**

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

##### · **For safety reasons unsuitable extinguishing agents** Water with a full water jet.

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

No further relevant information available.

#### · 5.3 Advice for firefighters

· **Protective equipment:** Wear self-contained breathing apparatus.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation  
Do not inhale vapours.  
Avoid contact with the product.  
Evacuate personnel to safe area.

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- **6.2 Environmental precautions:**  
Inform respective authorities in case product reaches water or sewage system.  
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
Dispose of contaminated material as waste according to section 13.  
Ensure adequate ventilation.  
Immediately clean contaminated surfaces.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Don't eat, drink or smoke while working.  
Avoid contact with impurities and incompatible substances (see chapter 10).
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage**
    - **Requirements to be met by storerooms and containers:** Ensure sufficient ventilation.
    - **Information about storage in one common storage facility:**  
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.  
Keep away from food, drink and animal feeding stuffs.
    - **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed containers.  
Storage between 5 and 25 °C.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
  - **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· <b>DNELs</b>		
<b>110-16-7 maleic acid</b>		
Dermal	DNEL (worker, short-term, systemic)	58 mg/kg bw/day (human)
	DNEL (worker, long-term, systemic)	3.3 mg/kg bw/day (human)
<b>80-15-9 α,α -dimethylbenzyl hydroperoxide</b>		
Inhalative	DNEL (worker, long-term, systemic)	6 mg/m <sup>3</sup> (human)
<b>1310-73-2 sodium hydroxide</b>		
Inhalative	DNEL (worker, long-term, local)	1 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, local)	1 mg/m <sup>3</sup> (human)
<b>99-97-8 N,N-dimethyl-p-toluidine</b>		
Oral	DNEL (consumer, long-term, systemic)	2.37251 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	1.18625 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	0.29252 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	1.35233 mg/m <sup>3</sup> (human)

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DNEL (consumer, long-term, systemic) 0.3364 mg/m <sup>3</sup> (human)	
<b>· PNECs</b>	
<b>110-16-7 maleic acid</b>	
PNEC aqua (freshwater)	0.0744 mg/L (.)
PNEC STP	3.33 mg/L (.)
PNEC sediment (freshwater)	0.0624 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	0.744 mg/L (.)
<b>80-15-9 α,α -dimethylbenzyl hydroperoxide</b>	
PNEC aqua (freshwater)	0.0031 mg/L (.)
PNEC aqua (marine water)	0.00031 mg/L (.)
PNEC STP	0.35 mg/L (.)
PNEC soil	0.0029 mg/kg soil dw (.)
PNEC sediment (freshwater)	0.023 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.0023 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	0.031 mg/L (.)
<b>99-97-8 N,N-dimethyl-p-toluidine</b>	
PNEC aqua (freshwater)	0.15259 mg/L (.)
PNEC aqua (marine water)	0.015259 mg/L (.)
PNEC STP	4.2863 mg/L (.)
PNEC soil	18.67677 mg/kg soil dw (.)
PNEC sediment (freshwater)	45.3777 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	0.15259 mg/L (.)

· **Additional information:** The lists that were valid during the compilation were used as basis.

### · 8.2 Exposure controls

#### · Individual protection measures, such as personal protective equipment

##### · General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Take off all contaminated clothing immediately.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

##### · Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

##### · Hand protection



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

##### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

##### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- **For the permanent contact gloves made of the following materials are suitable:**  
Nitrile rubber, NBR
- **Eye/face protection**



Tightly sealed safety glasses.

## SECTION 9: Physical and chemical properties

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

#### · General Information

- |   |                                    |
|---|------------------------------------|
| · <b>Colour:</b>  | According to product specification |
| · <b>Odour:</b>   | Characteristic                     |
| · <b>Melting point/freezing point:</b>                            | Not determined                     |
| · <b>Boiling point or initial boiling point and boiling range</b> | Not determined                     |
| · <b>Flash point:</b>   | Not applicable                     |
| · <b>Self-inflammability:</b>                                     | Product is not selfigniting.       |
| · <b>SADT</b>   |                                    |
| · <b>Solubility</b>   |                                    |
| · <b>Water:</b>   | Insoluble                          |
| · <b>Density and/or relative density</b>                          |                                    |
| · <b>Density at 20 °C</b>   | > 1 g/cm <sup>3</sup>              |

### · 9.2 Other information

- |  |                           |
|--|---------------------------|
| · <b>Appearance:</b>   |                           |
| · <b>Form:</b>   | Viscous                   |
| · <b>Important information on protection of health and environment, and on safety.</b> |                           |
| · <b>Explosive properties:</b>   | Product is not explosive. |

#### · Information with regard to physical hazard classes

- |  |      |
|--|------|
| · <b>Explosives</b>  | Void |
| · <b>Flammable gases</b>   | Void |
| · <b>Aerosols</b>  | Void |
| · <b>Oxidising gases</b>   | Void |
| · <b>Gases under pressure</b>  | Void |
| · <b>Flammable liquids</b>   | Void |
| · <b>Flammable solids</b>  | Void |
| · <b>Self-reactive substances and mixtures</b>                                     | Void |
| · <b>Pyrophoric liquids</b>  | Void |
| · <b>Pyrophoric solids</b>   | Void |
| · <b>Self-heating substances and mixtures</b>                                      | Void |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Void |
| · <b>Oxidising liquids</b>   | Void |
| · <b>Oxidising solids</b>  | Void |
| · <b>Organic peroxides</b>   | Void |
| · <b>Corrosive to metals</b>   | Void |
| · <b>Desensitised explosives</b>   | Void |

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### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Vigorous reactions when in contact with reducing agents, acids, bases, heavy metal compounds and polymerization accelerators.  
Strong UV-radiation.  
Incompatible substances can cause an exothermic polymerization reaction.
- **10.6 Hazardous decomposition products:** Possible in traces.

### 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.

· **LD/LC50 values that are relevant for classification:**

110-16-7 maleic acid		
Oral	LD50	2,870 mg/kg (rat)
80-15-9 $\alpha,\alpha$ -dimethylbenzyl hydroperoxide		
Oral	LD50	382 mg/kg (rat)
Dermal	LD50	500 mg/kg (rat)
Inhalative	LC50	220 mg/l/4h (rat)
1310-73-2 sodium hydroxide		
Inhalative	LC50	0.75 mg/l/2h (rat)
99-97-8 N,N-dimethyl-p-toluidine		
Oral	LD50	139 mg/kg (mouse)

- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Strongly irritant
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **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.
- **STOT-single exposure**  
May cause respiratory irritation.
- **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.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

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### SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**1310-73-2 sodium hydroxide**

EC50 (static)	145 mg/l/24h (Poecilia reticulata)
EC50	40.4 mg/l/48h (Ceriodaphnia dubia)

· **12.2 Persistence and degradability** No further relevant information available.

· **Other information:** There are no data available about the preparation.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

### SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

The waste code numbers mentioned are recommendations based on the probable use of the product.

· **European waste catalogue**

19 00 00	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 09 00	wastes from the preparation of water intended for human consumption or water for industrial use
19 09 99	wastes not otherwise specified
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR/ADN, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR/ADN, ADN, IMDG, IATA** Void

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· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR/ADN, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR/ADN, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>UN "Model Regulation":</b>	Void

### SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category H2 ACUTE TOXIC**

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H242 Heating may cause a fire.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

· **Department issuing data specification sheet:**

- **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:  
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,  
phone: (+49) 511 42079 - 0, reach@dekra.com.

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· **Version number of previous version: 3**

· **Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Org. Perox. E: Organic peroxides – Type E/F
- Acute Tox. 4: Acute toxicity – Category 4
- Acute Tox. 2: Acute toxicity – Category 2
- Acute Tox. 3: Acute toxicity – Category 3
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **\* Data compared to the previous version altered.**