



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

Printing date 24.11.2022


Version number 14.0 (replaces version 13.1)

Revision: 24.11.2022

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

- **1.1 Product identifier**
- **Trade name: KEIM ALGICID-PLUS**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Biocide
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
KEIMFARBEN GMBH  
Keimstraße 16 / 86420 Diedorf  
Tel. +49 (0)821 4802-0  
Fax +49 (0)821 4802-210  
www.keim.com / info@keimfarben.de
- **Further information obtainable from:**  
Product safety department  
Telefon: 49(0)821/4802-138  
E-Mail: sdb.info@keimfarben.de
- **1.4 Emergency telephone number:**  
GBK GmbH Global Regulatory Compliance  
Emergency number: +49(0)6132/84463

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Skin Sens. 1      H317 May cause an allergic skin reaction.  
Aquatic Chronic 3      H412 Harmful to aquatic life with long lasting effects.
- **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:**  
2-octyl-2H-isothiazol-3-one
- **Hazard statements**  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P102      Keep out of reach of children.

(Contd. on page 2)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.11.2022

Version number 14.0 (replaces version 13.1)

Revision: 24.11.2022

**Trade name: KEIM ALGICID-PLUS**

(Contd. of page 1)

- P262 Do not get in eyes, on skin, or on clothing.  
P261 Avoid breathing mist/vapours/spray.  
P280 Wear protective gloves / protective clothing.  
P273 Avoid release to the environment.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container in accordance with regional/national regulations.

**Additional information:**

Restricted to professional users.

Contains biocidal products: didecyldimethylammonium chloride, 2-octyl-2H-isothiazol-3-one

**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:** Biocide Preparation in water**Dangerous components:**

CAS: 7173-51-5 EINECS: 230-525-2 Index number: 612-131-00-6	didecyldimethylammonium chloride ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302	0.114%
CAS: 26530-20-1 EINECS: 247-761-7 Index number: 613-112-00-5	2-octyl-2H-isothiazol-3-one ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Skin Corr. 1, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); ⚠ Skin Sens. 1A, H317, EUH071 ATE: LD50 oral: 125 mg/kg LD50 dermal: 311 mg/kg LC50/4 h inhalative: 0.27 mg/l Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	0.025%

**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:**

Immediately remove any clothing soiled by the product.

Seek medical treatment in case of complaints.

When seeing the doctor we suggest to present this safety data sheet.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

(Contd. on page 3)



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

Printing date 24.11.2022

Version number 14.0 (replaces version 13.1)

Revision: 24.11.2022

**Trade name: KEIM ALGICID-PLUS**

(Contd. of page 2)

- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Do not use solvents or thinners.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Rinse mouth and throat well with water.  
Do not induce vomiting; call for medical help immediately.
- **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:**  
Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Special protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
In case of fire do not breathe smoke, fumes and vapours.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid contact with skin and eyes.  
Do not inhale fumes.  
Ensure adequate ventilation  
Respect the protection rules (see section 7 and 8).  
Keep uninvolved people away.
- **6.2 Environmental precautions:**  
Do not allow product to reach soil, sewage system or any water course.  
Follow local governmental rules and regulations.  
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.  
Clear contaminated areas thoroughly.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

(Contd. on page 4)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.11.2022

Version number 14.0 (replaces version 13.1)

Revision: 24.11.2022

**Trade name: KEIM ALGICID-PLUS**

See Section 13 for disposal information.

(Contd. of page 3)

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Keep receptacles tightly sealed.

Open and handle receptacle with care.

Avoid contact with skin and eyes.

Prevent formation of aerosols.

See item 8 (8.2) for information about suitable protective equipment and technical precautions.

Respect the protection rules.

**Information about fire - and explosion protection:**

The product is not flammable.

No special measures required.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Keep in the original containers in a cool and dry place.

Store only in unopened original receptacles.

**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:**

Store in a cool place.

Protect from frost.

Protect from heat and direct sunlight.

Please note information on label

**Storage class:** 12**GISCode** GD0 Desinfektionsreiniger, sonstige**7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**8.1 Control parameters****Ingredients 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.

**DNELs****7173-51-5 didecyldimethylammonium chloride**

Dermal Long-term - systemic effects 8.6 mg/kg bw/day (worker)

Inhalative Long-term - systemic effects 18.2 mg/m<sup>3</sup> (worker)**PNECs****7173-51-5 didecyldimethylammonium chloride**

Aquatic compartment - freshwater 0.002 mg/l (Freshwater)

Aquatic compartment - marine water 0.0002 mg/l (Seawater)

(Contd. on page 5)



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

Printing date 24.11.2022

Version number 14.0 (replaces version 13.1)

Revision: 24.11.2022

**Trade name: KEIM ALGICID-PLUS**

(Contd. of page 4)

Aquatic compartment - water, intermittent releases	0.00029 mg/l (not specified)
Aquatic compartment - sediment in freshwater	2.82 mg/kg sed dw (Freshwater sediment)
Aquatic compartment - sediment in marine water	0.28 mg/kg sed dw (Marine sediment)
Terrestrial compartment - soil	1.4 mg/kg dw (soil)
Sewage treatment plant	0.595 mg/l (Sewage treatment plant)

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
  - Avoid contact with the eyes and skin.
  - Immediately remove all soiled and contaminated clothing.
  - Wash hands before breaks and at the end of work.
  - Do not inhale aerosols.
- **Respiratory protection:**
  - Use suitable respiratory protective device only when aerosol or mist is formed.
  - Combination filter A/P
- **Hand protection** Protective gloves
- **Material of gloves**
  - suitable material e.g.:
  - Nitrile impregnated cotton-gloves
  - Butyl rubber, BR
  - Recommended thickness of the material:  $\geq 0.5$  mm
  - 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**
  - Value for the permeation: level  $\geq 6$  (480 min)
  - The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
  - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection** Tightly sealed goggles
- **Body protection:**
  - Protective work clothing
  - After contact with skin wash thoroughly with water and apply lotion.
- **Environmental exposure controls**
  - See Section 12 and 6.2
  - No further relevant information available.

DEN

(Contd. on page 6)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.11.2022

Version number 14.0 (replaces version 13.1)

Revision: 24.11.2022

Trade name: KEIM ALGICID-PLUS

(Contd. of page 5)

### SECTION 9: Physical and chemical properties

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

##### · General Information

· Physical state	Fluid
· Colour:	Clear
· Odour:	Odourless
· Odour threshold:	Not determined
· Melting point/freezing point:	~0 °C
· Boiling point or initial boiling point and boiling range	~100 °C
· Flammability	Not applicable
· Lower and upper explosion limit	
· Lower:	Not applicable
· Upper:	Not applicable
· Flash point:	Not applicable
· Ignition temperature:	Not determined
· Decomposition temperature:	Not determined
· pH at 20 °C	6-7
· Viscosity:	
· Kinematic viscosity	Not determined
· Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible

##### · Partition coefficient n-octanol/water (log value)

26530-20-1 | 2-octyl-2H-isothiazol-3-one | 2,45 log POW

· Vapour pressure at 20 °C:	~23 hPa
· Density and/or relative density	
· Density at 20 °C:	1.0-1.1* g/cm <sup>3</sup>
· Relative density	Not determined
· Vapour density	Not applicable.

#### · 9.2 Other information

\* The values are for freshly produced material and may change with the time.

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Softening point/range	
· Oxidising properties:	Not applicable
· Evaporation rate	Not applicable

(Contd. on page 7)



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

Printing date 24.11.2022

Version number 14.0 (replaces version 13.1)

Revision: 24.11.2022

Trade name: KEIM ALGICID-PLUS

(Contd. of page 6)

- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions of storage and use.
- **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:**  
reducing agents  
oxidizing agents  
Bases
- **10.6 Hazardous decomposition products:**  
No hazardous decomposition products if stored and handled as prescribed.

### 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 relevant for classification:**

**7173-51-5 didecyldimethylammonium chloride**

Oral	LD50	329 mg/kg (rat)
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(Contd. on page 8)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.11.2022

Version number 14.0 (replaces version 13.1)

Revision: 24.11.2022

**Trade name: KEIM ALGICID-PLUS**

(Contd. of page 7)

Dermal	LD50	2,930 mg/kg (rabbit)
<b>26530-20-1 2-octyl-2H-isothiazol-3-one</b>		
Oral	LD50	125 mg/kg (ATE) 318 mg/kg (rat) (OECD 401)
Dermal	LD50	311 mg/kg (ATE) 311 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	0.27 mg/l (ATE)

- **Skin corrosion/irritation** Frequent persistent contact with the skin may cause skin irritation.
- **Serious eye damage/irritation** In case of longer exposure, irritating effect is possible.
- **during inhalation:** Irritant effect possible.
- **during swallowing:** Irritant effect possible
- **Respiratory or skin sensitisation**  
Contains OIT.  
May cause an allergic skin reaction.  
OIT = 2-octyl-2H-isothiazol-3-one
- **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** 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.
- **Other information (about experimental toxicology):**  
Experimental analysis are not available.  
The product was not tested. The statements on toxicology have been derived from the properties of the individual components.
- **Subacute to chronic toxicity:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not applicable
- **11.2 Information on other hazards**

**Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**  
Harmful to aquatic organisms.  
May cause long-term adverse effects in the aquatic environment.

<b>7173-51-5 didecyldimethylammonium chloride</b>	
NOEC	0.021 mg/l (daphnia) (21d)
EC 50/48h (static)	0.029 mg/l (daphnia)
EC 50/72 h (static)	3.6 mg/l (algae)
LC 50/96 h	0.2 mg/l (fish)
LC50/EC50/IC50	<1 mg/l (fish)

(Contd. on page 9)





## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.11.2022

Version number 14.0 (replaces version 13.1)

Revision: 24.11.2022

**Trade name: KEIM ALGICID-PLUS**

(Contd. of page 8)

**26530-20-1 2-octyl-2H-isothiazol-3-one**

NOEC	0.022 mg/l (fish) (21d) 0.0016 mg/l (daphnia) (21d)
EC 50/48h	0.32 mg/l (daphnia) (OECD 202)
EC 50/3h	30.2 mg/l (activated sludge) (OECD 209)
EC 50/72 h	0.084 mg/l (algae) (OECD 201)
LC 50/96 h	0.047 mg/l (fish) (OECD 203)
LC50/EC50/IC50	<1 mg/l (fish)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.

**Bioconcentration factor (BCF)**

26530-20-1	2-octyl-2H-isothiazol-3-one	165-1280
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- **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:**
- **AOX-indication:**

The product can take influence in small measure on the AOX-load of the waste water.
- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**

According to our current data base the product does not consist of any heavy metals or substances of EU-directives 76/464/EWG.
- **General notes:**

Danger to drinking water if even small quantities leak into the ground.  
At present there are no ecotoxicological assessments.  
The statements on ecotoxicology have been derived from the properties of the individual components.  
Do not allow product to reach ground water, water course or sewage system.  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**

Must not be disposed with household garbage. Do not allow product to reach sewage system.  
Disposal must be made according to official regulations.

**European waste catalogue**

16 10 01*	aqueous liquid wastes containing hazardous substances
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(Contd. on page 10)

DEN



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

Printing date 24.11.2022

Version number 14.0 (replaces version 13.1)

Revision: 24.11.2022

Trade name: KEIM ALGICID-PLUS

(Contd. of page 9)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary with cleansing agents.

#### SECTION 14: Transport information

- |  |                |
|--|----------------|
| · <b>14.1 UN number or ID number</b><br>· <b>ADR, IMDG, IATA</b>                       | Void           |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, IMDG, IATA</b>                      | Void           |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, IMDG, IATA</b><br>· <b>Class</b> | Void           |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                | Void           |
| · <b>14.5 Environmental hazards:</b><br>· <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>UN "Model Regulation":</b>  | Void           |

#### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
For information on labelling please refer to section 2 of this document.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

##### · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

None of the ingredients is listed.

##### · Regulation (EU) No 649/2012

7173-51-5 didecyldimethylammonium chloride

Annex I Part 1

##### · 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.

(Contd. on page 11)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.11.2022

Version number 14.0 (replaces version 13.1)

Revision: 24.11.2022

**Trade name: KEIM ALGICID-PLUS**

(Contd. of page 10)

**· 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:****· Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.**· Other regulations, limitations and prohibitive regulations****· Please note:**

TRGS 200 (Germany)

TRGS 500 (Germany)

TRGS 510 (Germany)

TRGS 900 (Germany)

**· Substances of very high concern (SVHC) according to REACH, Article 57** Not applicable**· Product-Code/Giscode:** GD0**· 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant phrases**

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

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.

H411 Toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

**· Department issuing SDS:** KEIMFARBEN Germany, Product safety department**· Version number of previous version:** 13.1**· 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)

(Contd. on page 12)



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

Printing date 24.11.2022

Version number 14.0 (replaces version 13.1)

Revision: 24.11.2022

**Trade name: KEIM ALGICID-PLUS**

(Contd. of page 11)

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)  
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)  
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  
AGW: Arbeitsplatzgrenzwert (Germany)  
EC10: Effective concentration at 10% mortality rate.  
EC50: Half maximal effective concentration.  
LC10: Lethal concentration at 10% mortality rate.  
NOEC: No observed effect concentration.  
REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)  
Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 2: Acute toxicity – Category 2  
Skin Corr. 1: Skin corrosion/irritation – Category 1  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1A: Skin sensitisation – Category 1A  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
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.**

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