



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

Printing date 10.12.2019


Version number 14.0

Revision: 10.12.2019

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

- **1.1 Product identifier**
- **Trade name: KEIM REVERSIL-SCHLÄMME**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Reversible, closing base coat for interior use
- **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-methyl-2H-isothiazol-3-one, in non-breathable form
mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
- **Hazard statements**
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements

- P102 Keep out of reach of children.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P261 Avoid breathing spray.
- P273 Avoid release to the environment.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- 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:**

Aqueous dispersion of polyether-polyurethane without free groups of isocyanates and fillers

Dangerous components:

CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32-XXXX	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.25-<0.5%
CAS: 108-01-0 EINECS: 203-542-8 Index number: 603-047-00-0 Reg.nr.: 01-2119492298-24-XXXX	2-dimethylaminoethanol ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 3, H331; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	<0.2%
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9	2-methyl-2H-isothiazol-3-one, in non-breathable form ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1A, H317	≥0.0015-<0.01%
CAS: 55965-84-9 EC number: 611-341-5 Index number: 613-167-00-5	mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) ⚠ Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1A, H317	<0.0015%

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CAS: 1314-98-3 EINECS: 215-251-3 Reg.nr.: 01-2119475779-15-xxxx	zinc sulphide substance with a Community workplace exposure limit	<1%
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· **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:**

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.

· **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:**

CO₂, powder or water spray. Fight larger fires with water spray or resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

carbon oxide (CO_x)

Nitrogen oxides (NO_x)

Hydrogen fluoride (HF)

Sulphur dioxide (SO₂)

Barium oxide vapour

Hydrogen cyanide (HCN)

· 5.3 Advice for firefighters

· **Specila protective equipment:** Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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SECTION 6: Accidental release measures

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

Ensure adequate ventilation

Avoid contact with skin and eyes.

Respect the protection rules (see section 7 a. 8).

· **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.

Dilute with plenty of water.

· **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.

Flush rests with sufficient amount of water.

· **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 disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Keep receptacles tightly sealed.

Avoid contact with skin and eyes.

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:**

Store only in unopened original receptacles.

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

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from frost.

Protect from heat and direct sunlight.

· **Storage class:** 12

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· **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:**

14808-60-7 Quartz (SiO₂)

MAK (Germany) | alveolengängige Fraktion

2682-20-4 2-methyl-2H-isothiazol-3-one, in non-breathable form

MAK (Germany) | Long-term value: 0.2 E mg/m³
vgl. Abschn. Xc

55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

MAK (Germany) | Long-term value: 0.2E mg/m³
vgl. Abschn. Xc

1314-98-3 zinc sulphide

MAK (Germany) | Long-term value: 0.1A* 2E** mg/m³
*alveolengängig; **einatembar

· **DNELs**

1314-13-2 zinc oxide

Oral	Long-term - systemic effects	0.83 mg/kg bw/day (consumer) (50 mg Zn/day)
Dermal	Long-term - systemic effects	83 mg/kg bw/day (worker)
	Long-term - systemic effects	83 mg/kg bw/day (consumer) (5000 mg Zn/day)
Inhalative	Long-term - systemic effects	5 mg/m ³ (worker)
	Long-term - systemic effects	2.5 mg/m ³ (consumer)
	Long-term - local effects	0.5 mg/m ³ (worker)

108-01-0 2-dimethylaminoethanol

Dermal	Acute - local effects	5 mg/kg bw/day (worker)
	Long-term - systemic effects	1.04 mg/kg bw/day (worker)
Inhalative	Acute - systemic effects	22 mg/m ³ (worker)
	Long-term - systemic effects	7.4 mg/m ³ (worker)

· **PNECs**

1314-13-2 zinc oxide

Aquatic compartment - freshwater	0.0206 mg/l (freshwater)
Aquatic compartment - marine water	0.0061 mg/l (marine water)
Aquatic compartment - sediment in freshwater	117.8 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	56.5 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	35.6 mg/kg dw (soil)
Sewage treatment plant	0.1 mg/l (sewage treatment plant)

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108-01-0 2-dimethylaminoethanol

Aquatic compartment - freshwater	0.0661 mg/l (freshwater)
Aquatic compartment - marine water	0.00661 mg/l (marine water)
Aquatic compartment - sediment in freshwater	0.0529 mg/kg sed dw (sediment fresh water)
Terrestrial compartment - soil	0.0177 mg/kg dw (soil)
Sewage treatment plant	10 mg/l (sewage treatment plant)

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Avoid contact with the eyes and skin.
 - Do not inhale aerosols.
 - Wash hands before breaks and at the end of work.
 - Immediately remove all soiled and contaminated clothing.
- **Respiratory protection:**
 - Use suitable respiratory protective device only when aerosol or mist is formed.
 - Combination filter A/P
- **Protection of hands:** Protective gloves
- **Material of gloves**
 - suitable material e.g.:
 - Nitrile impregnated cotton-gloves
 - Butyl rubber, BR
 - PVC or PE gloves
 - Recommended thickness of the material: ≥ 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 ≥ 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 protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment** See Section 12 and 6.2

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Pasty

Colour: White

· Odour: Characteristic

· Odour threshold: Not determined

· pH-value at 20 °C: ~8*

· Change in condition

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

· Flash point: Not applicable

· Flammability (solid, gas): Not applicable

· Ignition temperature: Not determined

· Decomposition temperature: Not determined

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not applicable

Upper: Not applicable

· Oxidising properties: Not applicable

· Vapour pressure: Not determined.

· Density at 20 °C: 1.5-1.6* g/cm³

· Relative density: Not determined

· Vapour density: Not applicable.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with water:

Fully miscible

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic at 20 °C: 1.500-2.500* mPas

Kinematic: Not determined

· 9.2 Other information

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

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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:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
In case of fire, the following can be released:
Poisonous gases/vapours
Carbon oxides (CO_x)
Nitrogen oxides (NO_x)
Hydrogen fluoride
Sulphur oxides (SO_x)
Bariumoxide vapour
(possible HCN)
No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:**1314-98-3 zinc sulphide**

Oral	LD50	>15,000 mg/kg (rat) (OECD 401)
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1314-13-2 zinc oxide

Oral	LD50	>5,000 mg/kg (rat)
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Inhalative	LC50/4 h	>5.7 mg/l (rat)
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108-01-0 2-dimethylaminoethanol

Oral	LD50	1,187 mg/kg (rat) (OECD 401)
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Dermal	LD50	1,219 mg/kg (rabbit) (OECD 402)
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Inhalative	LC50/4 h	6 mg/l (rat) (OECD 403)
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55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Oral	LD50	66 mg/kg (rat)
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Dermal	LD50	141 mg/kg (rat)
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- **Primary irritant effect:**
- **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

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- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not applicable
- **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.

SECTION 12: Ecological information

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

1314-98-3 zinc sulphide

EC 50/48h (static)	100 mg/l (daphnia) (OECD 202)
EC 50/96h (static)	100 mg/l (fish) (OECD 203)
EC 50/72 h (static)	100 mg/l (algae) (OECD 202)

1314-13-2 zinc oxide

EC 50/48h	0.67 mg/l (daphnia)
ErC50/72h	0.21 mg/l (algae) (pH >7 - 8,5; Zn (ZnO))

108-01-0 2-dimethylaminoethanol

EC 20/30min	>1,000 mg/l (activated sludge)
EC 50/48h	98.4 mg/l (daphnia)
EC 50/72 h	34.5 mg/l (algae)
LC 50/96 h	146.6 mg/l (fish)

55965-84-9 mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

NOEC	0.0012 mg/l (algae) (72h) 0.098 mg/l (fish) (28d) 0.004 mg/l (daphnia) (21d)
EC 50/48h	mg/l (algae) (OECD 201) 0.1 mg/l (daphnia)
EC 50/3h	7.92 mg/l (bacteria)
EC 50/72 h	0.027 mg/l (algae)
LC 50/96 h	0.188 mg/l (fish)

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- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:**
Elimination in biological waste water treatment plants is effected by flocculation, precipitation and adsorption on sewage sludge.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **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:**
The product contains TiO₂, ZnS, BaSO₄, ZnO.
- **General notes:**
At present there are no ecotoxicological assessments.
Do not allow product to reach ground water, water course or sewage system.
Harmful to aquatic organisms
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Other adverse effects** No further relevant information available.

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**

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary with cleansing agents.

SECTION 14: Transport information

- | | |
|---|------|
| · 14.1 UN-Number
· ADR, IMDG, IATA | Void |
| · 14.2 UN proper shipping name
· ADR, IMDG, IATA | Void |

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· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable
· Transport/Additional information:	No dangerous good in sense of these transport regulations.
· UN "Model Regulation":	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.
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly 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:** BSW50
- **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.

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· **Relevant phrases**

H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H311 Toxic in contact with skin.
H312 Harmful 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.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** KEIMFARBEN Germany, Product safety department

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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)
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)
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity - oral – Category 4
Acute Tox. 2: Acute toxicity - inhalation – Category 2
Acute Tox. 3: Acute toxicity - inhalation – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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