



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

Printing date 06.07.2023

Version number 4.0 (replaces version 3.0)

Revision: 06.07.2023

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

- **1.1 Product identifier**
- **Trade name:** **KEIM MYCAL-XO**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture**
Oxidizing agent for disinfection of wall surfaces infested with mould.
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KEIM MINERAL PAINTS LTD
Santok Building / Deer Park Way, Donnington Wood GB-Telford, Shropshire TF2 7NA
Tel +44 1952 231 250 / Fax +44 1952 231 251
www.keim.com / sales@keimpaints.co.uk
- **Further information obtainable from:**
David Pratt
Telefon: +44 1952 231250
E-Mail: sales@keimpaints.co.uk
- **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**
The product is not classified, according to the GB CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Precautionary statements**
 - P262 Do not get in eyes, on skin, or on clothing.
 - P280 Wear protective gloves/protective clothing/eye protection.
 - P261 Avoid breathing mist/vapours/spray.
 - P284 [In case of inadequate ventilation] wear respiratory protection.
 - P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 - P312 Call a doctor if you feel unwell.
 - P501 Dispose of contents/container in accordance with regional/national regulations.
- **Additional information:**
Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

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- Contains biocidal products: Hydrogen peroxide, Glycollic acid, (+)-tartaric acid
- **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 substances listed below with nonhazardous additions.
Aqueous solution

· Dangerous components:

CAS: 7722-84-1 EINECS: 231-765-0 Index number: 008-003-00-9 Reg.nr.: 01-2119485845-22-XXXX	Hydrogen peroxide ⚠ Ox. Liq. 1, H271; ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limits: Ox. Liq. 1; H271: $C \geq 70 \%$ Ox. Liq. 2; H272: $50 \% \leq C < 70 \%$ Skin Corr. 1A; H314: $C \geq 70 \%$ Skin Corr. 1B; H314: $50 \% \leq C < 70 \%$ Skin Irrit. 2; H315: $35 \% \leq C < 50 \%$ Eye Dam. 1; H318: $C \geq 8 \%$ Eye Irrit. 2; H319: $5 \% \leq C < 8 \%$ STOT SE 3; $C \geq 35 \%$	4.83%
CAS: 87-69-4 EINECS: 201-766-0 Reg.nr.: 01-2119537204-47-XXXX	(+)-tartaric acid ⚠ Eye Dam. 1, H318	0.98%
CAS: 79-14-1 EINECS: 201-180-5 Reg.nr.: 01-2119485579-17	Glycollic acid ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H332	0.97%

- **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.
Seek medical treatment in case of complaints.

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- In case of unconsciousness place patient stably in side position for transportation.
- **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 out mouth and then drink plenty of water.
Do not induce vomiting.
- **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**
Symptomatic treatment

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Water haze, extinguishing powder, alcohol resistant foam, CO₂, sand.
Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.
- **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:
Oxygen
- **5.3 Advice for firefighters**
- **Special protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
In case of fire do not breathe smoke, fumes and vapours.

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.
Dilute with plenty of water.

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- **6.3 Methods and material for containment and cleaning up:**
Absorb with non-combustible liquid-binding material (sand, earth, diatomite, vermiculite).
Ensure adequate ventilation.
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.
Do not inhale aerosols.
In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection).
See item 8 (8.2) for information about suitable protective equipment and technical precautions.
Respect the protection rules.
Do not refill residue into storage receptacles.
- **Information about fire - and explosion protection:**
Protect from heat.
Keep ignition sources away - Do not smoke.
- **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:**
Store away from flammable substances.
Do not store together with alkalis (caustic solutions).
Store away from ferrous- and heavy metal salts.
- **Further information about storage conditions:**
Store in a cool place.
Protect from frost.
Store receptacle in a well ventilated area.
Protect from contamination.
Protect from heat and direct sunlight.
- **Storage class:** 12
- **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

7722-84-1 Hydrogen peroxide

WEL	Short-term value: 2.8 mg/m ³ , 2 ppm Long-term value: 1.4 mg/m ³ , 1 ppm
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· **DNELs**

7722-84-1 Hydrogen peroxide

Inhalative	Acute - local effects	3 mg/m ³ (worker)
	Acute - local effects	1.93 mg/m ³ (consumer)
	Long-term - local effects	1.4 mg/m ³ (worker)
	Long-term - local effects	0.21 mg/m ³ (consumer)

79-14-1 Glycollic acid

Oral	Long-term - systemic effects	0.75 mg/kg bw/day (consumer)
Dermal	Long-term - systemic effects	28.85 mg/kg bw/day (consumer)
		57.69 mg/kg bw/day (worker)
Inhalative	Acute - systemic effects	9.2 mg/m ³ (worker)
	Acute - systemic effects	2.3 mg/m ³ (consumer)
	Acute - local effects	2.3 mg/m ³ (consumer)
		9.2 mg/m ³ (worker)
	Long-term - systemic effects	2.6 mg/m ³ (consumer)
	Long-term - local effects	10.56 mg/m ³ (worker)
		1.53 mg/m ³ (worker)

· **PNECs**

7722-84-1 Hydrogen peroxide

Aquatic compartment - freshwater	0.013 mg/l (Freshwater)
Aquatic compartment - marine water	0.013 mg/l (Seawater)
Aquatic compartment - water, intermittent releases	0.014 mg/l (Freshwater)
Aquatic compartment - sediment in freshwater	0.047 mg/kg sed dw (Freshwater sediment)
Aquatic compartment - sediment in marine water	0.047 mg/kg sed dw (Marine sediment)
Terrestrial compartment - soil	0.002 mg/kg dw (soil)
Sewage treatment plant	4.66 mg/l (Sewage treatment plant)

79-14-1 Glycollic acid

Aquatic compartment - freshwater	0.031 mg/l (Freshwater)
Aquatic compartment - marine water	0.003 mg/l (Seawater)
Aquatic compartment - water, intermittent releases	0.312 mg/l (Freshwater)
Aquatic compartment - sediment in freshwater	0.115 mg/kg sed dw (Freshwater)
Aquatic compartment - sediment in marine water	0.011 mg/kg sed dw (Seawater)

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Terrestrial compartment - soil	0.007 mg/kg dw (soil)
Sewage treatment plant	7 mg/l (Sewage treatment plant)
Oral secondary poisoning	16.66 mg/kg food (not specified)

· **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:**

Do not eat, drink, smoke or sniff while working.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

· **Respiratory protection:**

Suitable respiratory protective device recommended.
Combination filter A1/P1
In unsufficient ventilated working areas and during spray-processing a breathing protection is necessary.
If the product is used for more than 20 minutes per day, wear a respirator with a combined filter for aerosol and gas (against CAS 7722-84-1) with a protection factor of at least 10 (EN 529: 2005, APF Germany).

· **Hand protection**

Protective gloves are recommendable
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Check protective gloves prior to each use for their proper condition.
To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required.

· **Material of gloves**

suitable material e.g.:
Natural rubber, NR
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.4 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.

· **Not suitable are gloves made of the following materials:**

Leather gloves
Strong material gloves

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- **Eye/face protection**
Goggles recommended during refilling
Tightly sealed goggles
- **Body protection:**
Protective work clothing
Wear proper protective clothing especially in case handling huge amounts or danger of squirting.
- **Environmental exposure controls**
See Section 12 and 6.2
No further relevant information available.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

- | | |
|---|----------------------------|
| · Physical state | Fluid |
| · Colour: | Colourless |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined |
| · Melting point/freezing point: | ~0 °C |
| · Boiling point or initial boiling point and boiling range | ~100 °C
(Decomposition) |
| · Flammability | Not applicable |
| · Lower and upper explosion limit | |
| · Lower: | Not applicable |
| · Upper: | Not determined |
| · Flash point: | Not applicable |
| · Auto-ignition temperature: | Not determined |
| · Decomposition temperature: | Not determined |
| · pH | Acidic |
| · Viscosity: | |
| · Kinematic viscosity | Not determined |
| · Dynamic: | Not determined. |
| · Solubility | |
| · water: | Fully miscible |
| · Partition coefficient n-octanol/water (log value) | Not applicable |
| · Vapour pressure: | Not determined. |
| · Density and/or relative density | |
| · Density at 20 °C: | 1.0-1.1* g/cm ³ |
| · 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.

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- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Change in condition**
- **Evaporation rate** Not applicable

- **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** Product is an oxidizing agent and reactive. Stable at room temperature.
- **10.2 Chemical stability** Stable under normal conditions of storage.
- **Thermal decomposition / conditions to be avoided:**
Risk of decomposition when exposed to heat.
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**
Acts as an oxidising agent on organic materials such as wood, paper and fats.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
reducing agents
Metals
Bases
Ferrous- and heavy metal salts
flammable substances

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- **10.6 Hazardous decomposition products:**
Oxygen
No hazardous decomposition products if stored and handled as prescribed.
- **Additional information:**
Commercial products are stabilized to reduce decomposition dangers of contamination

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:**

7722-84-1 Hydrogen peroxide

Oral	LD50	694-1,026 mg/kg (rat) (H ₂ O ₂ 70%)
Dermal	LD50	>2,000 mg/kg (rabbit) (H ₂ O ₂ 35%)
Inhalative	LC50/4 h	11 mg/l (ATE)

87-69-4 (+)-tartaric acid

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

79-14-1 Glycollic acid

Oral	LD50	2,040 mg/kg (rat)
Inhalative	LC50/4 h	>3.6 mg/l (rat)

- **Skin corrosion/irritation** Frequent persistent contact with the skin may cause skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **during inhalation:** Irritant effect possible.
- **during swallowing:** Irritant effect possible
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

7722-84-1 Hydrogen peroxide

NOEC	0.63 mg/l (algae) (72h) 5 mg/l (fish) (96h) 0.63 mg/l (daphnia) (21d)
EC 50/48h	2.4 mg/l (daphnia)
EC 50/72 h	1.38 mg/l (algae)
LC 50/96 h	16.4 mg/l (freshwater fish)

87-69-4 (+)-tartaric acid

NOEC	3.125 mg/l /72h (algae) 135 mg/l (daphnia) (32H)
NOEC	3.125 mg/kg /72h (algae)
EC 50/72 h	51.4 mg/l (algae)
LC 50/96 h	>100 mg/l (fish)

79-14-1 Glycollic acid

NOEC	14 mg/kg (algae) (72h) 91 mg/kg (fish) (96h) 70.7 mg/kg (daphnia) (48h)
EC 50/48h	99.6 mg/l (daphnia)
EC 50/72 h	31.2 mg/l (algae)
LC 50/96 h	114.8 mg/l (fish)

· 12.2 Persistence and degradability Easily biodegradable

· Behaviour in environmental systems:

· Components:

Water, ground.

Under environmental conditions fast decomposition into oxygen and water.

· 12.3 Bioaccumulative potential Bioaccumulation is not expected due to decomposition, reduction.

· 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:

Due to the substance of content which do not include organic jointed halogens, the product can not take influence on the AOX-load of the waste water.

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- **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 guideline NO. 2006/11/EC.
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
At present there are no ecotoxicological assessments.
The statements on ecotoxicology have been derived from the properties of the individual components.
Water hazard class 1 (German Regulation) (Self-assessment): slightly 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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- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.
Only empty containers may be recycled.
- **Recommended cleansing agents:** Water, if necessary with cleansing agents.

SECTION 14: Transport information

- | | |
|--|----------------|
| · 14.1 UN number or ID number | |
| · ADR, IMDG, IATA | Void |
| · 14.2 UN proper shipping name | |
| · ADR, IMDG, IATA | Void |
| · 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 |

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- | | |
|---|--|
| · 14.7 Maritime transport in bulk according to IMO instruments | 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.
- **REGULATION (EC) No 1907/2006 ANNEX XVII**

- **ANNEX I EXPORT SUBSTANCES DECLARABLE FOR EXPLOSIVES in quantities > 1%.**

7722-84-1	Hydrogen peroxide
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- **National regulations:**
- **Information about limitation of use:**
Observe employment restrictions for children and adolescents according to Directive 94/33 / EC and the corresponding 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)
- **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**
H271 May cause fire or explosion; strong oxidiser.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

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H412 Harmful to aquatic life with long lasting effects.

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

· **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)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

EC10: Effective concentration at 10% mortality rate.

EC50: Half maximal effective concentration.

LC10: Lethal concentration at 10% mortality rate.

NOEC: No observed effect concentration.

UK REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)

Ox. Liq. 1: Oxidizing liquids – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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