



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

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

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:**
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**
The product is not classified, according to the 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.

(Contd. on page 2)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

Trade name: KEIM MYCAL-XO

(Contd. of page 1)

- **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	Hydrogen peroxide ⚠ Ox. Liq. 1, H271; ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Aquatic Chronic 3, H412 Specific concentration limits: Ox. Liq. 1; H271: C ≥ 70 % Ox. Liq. 2; H272: 50 % ≤ C < 70 % Skin Corr. 1A; H314: C ≥ 70 % Skin Corr. 1B; H314: 50 % ≤ C < 70 % Skin Irrit. 2; H315: 35 % ≤ C < 50 % Eye Dam. 1; H318: C ≥ 8 % Eye Irrit. 2; H319: 5 % ≤ C < 8 % STOT SE 3; C ≥ 35 %	4.83%
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%
CAS: 87-69-4 EINECS: 201-766-0 Reg.nr.: 01-2119537204-47	(+)-tartaric acid ⚠ Eye Dam. 1, H318	0.98%

- **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.

(Contd. on page 3)

DEN



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

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

Trade name: KEIM MYCAL-XO

(Contd. of page 2)

- 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**
- **Specila 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 a. 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.

(Contd. on page 4)



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

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

Trade name: KEIM MYCAL-XO

(Contd. of page 3)

- **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.

DEN

(Contd. on page 5)



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

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

Trade name: KEIM MYCAL-XO

(Contd. of page 4)

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

MAK (Germany) | Long-term value: 0.71 mg/m³, 0.5 ppm

87-69-4 (+)-tartaric acid

AGW (Germany) | Long-term value: 2 E mg/m³
2(I);DFG, Y

· **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)

87-69-4 (+)-tartaric acid

Oral	Long-term - systemic effects	8.1 mg/kg bw/day (consumer)
Dermal	Long-term - systemic effects	1.5 mg/kg bw/day (consumer)
		2.9 mg/kg bw/day (worker)
Inhalative	Long-term - systemic effects	5.2 mg/m ³ (worker)
	Long-term - systemic effects	1.3 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	0.0126 mg/l (freshwater)
Aquatic compartment - marine water	0.0126 mg/l (marine water)
Aquatic compartment - water, intermittent releases	0.0138 mg/l (not specified)
Aquatic compartment - sediment in freshwater	0.047 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	0.047 mg/kg sed dw (sediment marine water)

(Contd. on page 6)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

Trade name: KEIM MYCAL-XO

(Contd. of page 5)

Terrestrial compartment - soil	0.0023 mg/kg dw (soil)
Sewage treatment plant	4.66 mg/l (sewage treatment plant)
87-69-4 (+)-tartaric acid	
Aquatic compartment - freshwater	0.312 mg/l (freshwater)
Aquatic compartment - marine water	0.312 mg/l (marine water)
Aquatic compartment - water, intermittent releases	0.514 mg/l (not specified)
Aquatic compartment - sediment in freshwater	1.141 mg/kg sed dw (freshwater)
Aquatic compartment - sediment in marine water	1.141 mg/kg sed dw (marine water)
Terrestrial compartment - soil	0.045 mg/kg dw (soil)
Sewage treatment plant	10 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 (marine water)
Aquatic compartment - water, intermittent releases	0.312 mg/l (not specified)
Aquatic compartment - sediment in freshwater	0.115 mg/kg sed dw (freshwater)
Aquatic compartment - sediment in marine water	0.011 mg/kg sed dw (marine water)
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**

· **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 insufficient 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).

· **Protection of hands:**

- 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.

(Contd. on page 7)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

Trade name: KEIM MYCAL-XO

(Contd. of page 6)

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 materialValue 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

Eye 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.

Limitation and supervision of exposure into the environment

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****Appearance:****Form:**

Fluid

Colour:

Colourless

Odour:

Characteristic

Odour threshold:

Not determined

pH-value:

Acidic

Change in condition**Melting point/freezing point:**

~0 °C

Initial boiling point and boiling range: ~100 °C
(Decomposition)**Flash point:**

Not applicable

(Contd. on page 8)

DEN



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

Trade name: KEIM MYCAL-XO

(Contd. of page 7)

· 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 determined
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.015* g/cm ³
· 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 applicable
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined
· 9.2 Other information	* The values are for freshly produced material and may change with the time.

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
- **10.6 Hazardous decomposition products:**
Oxygen

(Contd. on page 9)

DEN



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

Trade name: KEIM MYCAL-XO

(Contd. of page 8)

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 toxicological effects****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)
Dermal	LD50	>2,000 mg/kg (rabbit) (H2O2 70%)
Inhalative	LC 50	>0.17 mg/l (rat)

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	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>3.6 mg/l (rat)

Primary irritant effect:**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.**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.

DEN

(Contd. on page 10)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

Trade name: KEIM MYCAL-XO

(Contd. of page 9)

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

7722-84-1 Hydrogen peroxide

NOEC	0.1 mg/l (algae) 5 mg/l (fish) (96h) 0.63 mg/l (daphnia) (21d)
LOEC	1.25 mg/l (daphnia) (21d)
EC 50/48h	2.4 mg/l (daphnia)
EC 50/24h	7.7 mg/l (daphnia)
EC 50/3h	>1,000 mg/l (activated sludge)
EC 50/72 h	1.38 mg/l (algae)
LC 50/96 h	16.4 mg/l (freshwater fish)
LC 50/24h	31 mg/l (freshwater fish)
IC 50/72h	2.5 mg/l (algae)

87-69-4 (+)-tartaric acid

NOEC	3.125 mg/kg /72h (algae)
EC 50/3h	>1,000 mg/l (Mikroorganismus)
EC 50/72 h	51.4 mg/l (algae)
EC 50	93.3 mg/l /32h (daphnia)
LC 50/96 h	>100 mg/l (fish)
NOEL	6.25 mg/l /72h (algae)

79-14-1 Glycollic acid

NOEC	20 mg/kg /72h (algae) 130 mg/kg /96h (fish) 100 mg/kg /48h (daphnia)
EC 50/48h	141 mg/l (daphnia)
EC 50/72 h	44 mg/l (algae)
LC 50/96 h	164 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.

(Contd. on page 11)

DEN



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

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

Trade name: KEIM MYCAL-XO

(Contd. of page 10)

- **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.
- **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:**
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
- **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**

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 | |
| · 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 |

(Contd. on page 12)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

Trade name: KEIM MYCAL-XO

(Contd. of page 11)

· 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:**
- **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)
- **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**
H271 May cause fire or explosion; strong oxidiser.

(Contd. on page 13)

DEN



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

Printing date 16.06.2020

Version number 3.0

Revision: 16.06.2020

Trade name: KEIM MYCAL-XO

(Contd. of page 12)

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H412 Harmful 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)

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

Ox. Liq. 1: Oxidizing liquids – Category 1

Acute Tox. 4: Acute toxicity - oral – 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

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

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