

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 31 Jan 2023

Print date: 31 Jan 2023

Version: 2



SANOSIL
DISINFECTANTS FOR LIFE 

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

1.1. Product identifier

Trade name/designation:

Sanosil S015

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Disinfectant

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Sanosil

Eichtalstrasse 49
8634 Hombrechtikon
Switzerland

Telephone: +41 55 254 00 54

Telefax: +41 55 254 00 59

E-mail: kundeninfo@sanosil.ch

Website: www.sanosil.ch

1.4. Emergency telephone number

United States of America: Poison control center - national hotline number 1-800-222-1222

Great Britain: National phone number 111

Belgium: Centre antipoisons +32 070 245 245 / Bulgaria: +359 2 9154 233 / Croatia: +3851 2348

342 / Cyprus: +357 1401 / Czech Republic: +420 224 919 293, +420 224 915 402 / Denmark: +45 82

12 12 12 / Estonia: +372 16662, +372 7943 794 / Finland: +358 09 471 77 / France: numéro ORFILA

(INRS) : +33 (0)1 45 42 59 59 / Greece: +30 21077 93777 / Hungary: +36 80 201 199 (24 hours) /

Ireland: +353 (1) 809 2166 / Italy: +39 06 4997800 / Lithuania: +370 (85) 2362052 / Luxembourg:

+352 8002 5500 / The Netherlands: +31 (0) 30 274 8888 / Norway: +47 22 59 13 00 / Portugal: +351

800 250 250 / Romania: +402 213 183 606 / Slovakia: +421 2 5477 4166 / Spain: National Emergency

Telephone Number: +34 91 562 04 20 / Sweden: +46 112 (emergency 24 hours), +46 08-331231 (monfri 9.00-17.00).

European Union: Call 112 if no specific phone number available.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard statements for health hazards

H319 Causes serious eye irritation.

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard information: none

Precautionary statements Prevention

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 7722-84-1 EC No.: 231-765-0 Index No.: 008-003-00-9 REACH No.: 01-2119485845-22-XXXX	hydrogen peroxide Acute Tox. 4 (H332, H302), Ox. Liq. 1 (H271), Skin Corr. 1A (H314) Danger Specific concentration limit (SCL) Ox. Liq. 1, Skin Corr. 1A; H271-H314: C ≥ 70% Ox. Liq. 2, Skin Corr. 1B; H272-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; H335: C ≥ 35%	< 8 weight-%
CAS No.: 7664-38-2 EC No.: 231-633-2 Index No.: 015-011-00-6 REACH No.: 01-2119485924-24-XXXX	orthophosphoric acid Skin Corr. 1B (H314) Danger Specific concentration limit (SCL) Skin Corr. 1B; H314: C ≥ 25% Skin Irrit. 2; H315: 10% ≤ C < 25% Eye Dam. 1; H318: C ≥ 25% Eye Irrit. 2; H319: 10% ≤ C < 25%	< 0.1 weight-%
CAS No.: 7440-22-4 EC No.: 231-131-3 REACH No.: 01-2119555669-21-0036	silver Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410) Warning M-factor (acute): 1,000 M-factor (chronic): 100	< 0.02 weight-%

Full text of H- and EUH-phrases: see section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:

In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing. Do not use solvents.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Get immediate medical advice/attention.

Self-protection of the first aider:

Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed

Serious eye damage/eye irritation

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water, Dry extinguishing powder, Carbon dioxide (CO₂), alcohol resistant foam

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

No data available

5.3. Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Keep closed containers cool by spraying water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Avoid contact with skin, eyes and clothes.

Provide adequate ventilation.

Remove persons to safety.

Use personal protection equipment.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection. See section 8.

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6.1.2. For emergency responders

Personal protection equipment:

See section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

For containment:

Provide for retaining containers, e.g. floor pan without outflow. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Dispose of the residus of the product as hazardous waste (see section 13).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Losses during use of the product must be collected and disposed of in special containers as special waste.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Requirements for storage rooms and vessels:

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

Do not use metal drip pans.

Hints on storage assembly:

Keep away from oxidising agents.

Do not store together with strong acids.

Do not store with flammable materials.

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
ES	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.4 mg/m ³)
VLA (FR)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.5 mg/m ³)
WEL (GB)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.4 mg/m ³) ② 2 ppm (2.8 mg/m ³)
IDLH (US) from 1 Jan 1994	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 75 ppm
OSHA (US)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.4 mg/m ³)
NIOSH (US)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.4 mg/m ³)
ACGIH (US)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.4 mg/m ³)
ES	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	① 1 mg/m ³ ② 2 mg/m ³ ⑤ VLI, s
IOELV (EU)	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	① 1 mg/m ³ ② 2 mg/m ³
VRI (FR) from 3 May 2021	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	① 0.2 ppm (1 mg/m ³) ② 0.5 ppm (2 mg/m ³)
WEL (GB)	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	① 1 mg/m ³ ② 2 mg/m ³
OSHA (US)	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	① 1 mg/m ³
NIOSH (US)	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	① 1 mg/m ³ ② 3 mg/m ³
ACGIH (US)	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	① 1 mg/m ³ ② 3 mg/m ³
IOELV (EU)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m ³ ⑤ (silver compounds, soluble, calculated as Ag)
VRI (FR) from 3 May 2021	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m ³ ⑤ Argent composés, soluble, calculé comme Ag

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m ³ ⑤ (compounds, soluble; calculated as Ag)
NIOSH (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m ³ ⑤ compounds, soluble; calculated as Ag
IOELV (EU)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.1 mg/m ³ ⑤ (metal)
WEL (GB)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.1 mg/m ³ ⑤ (metal)
VRI (FR) from 3 May 2021	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.1 mg/m ³ ⑤ (métal)
ACGIH (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m ³ ⑤ compounds, soluble
OSHA (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m ³
ES from 1 May 2021	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m ³ ⑤ (composiciones de plata, soluble, calculado como Ag) c, VLI
ES from 1 May 2021	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.1 mg/m ³ ⑤ (metal)
IDLH (US) from 1 Jan 1994	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 10 Ag/m ³
IDLH (US) from 1 Jan 1994	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 10 Ag/m ³ ⑤ (compounds, soluble)
NIOSH (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m ³
ACGIH (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.1 mg/m ³

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

8.2.2. Personal protection equipment



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Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Use protective gloves in accordance to EN 374. The following material is suitable: NBR Breakthrough time: min. 6 hrs.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Full-/half-/quarter-face masks (EN 136/140): Filter type: NO, B or ABEK-P3

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: not determined

Odour: not determined

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	2 - 2.5	20 °C	
Melting point	= -4.5		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	= 101.1 °C		
Decomposition temperature	<i>not determined</i>		
Flash point	<i>not applicable</i>		
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not applicable</i>		
Upper/lower flammability or explosive limits	<i>not applicable</i>		
Vapour pressure	22.5 hPa	20 °C	
Vapour density	<i>not determined</i>		
Density	1.02 g/cm ³		
Relative density	<i>not determined</i>		
Bulk density	<i>not applicable</i>		
Water solubility	completely miscible		
Partition coefficient: n-octanol/water	<i>not determined</i>		
Dynamic viscosity	<i>not determined</i>		
Kinematic viscosity	<i>not determined</i>		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Heat

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10.5. Incompatible materials

combustible substances
strong acids and alkalis
Oxidising agent, strong
Alkaline earth metal
Solvent
Cotton

10.6. Hazardous decomposition products

Oxygen

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0
LD₅₀ oral: 376 mg/kg (Rat)
LD₅₀ dermal: 3,000 mg/kg (Rat)
LC₅₀ Acute inhalation toxicity (vapour): 2 mg/L 4 h (Rat)
orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2
LD₅₀ oral: >300 - <2,000 mg/kg (Rat)

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Causes serious eye irritation.

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.

* 11.2. Information on other hazards

Endocrine disrupting properties:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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SECTION 12: Ecological information

12.1. Toxicity

hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0

LC₅₀: 16.4 mg/L (Fish)

LC₅₀: 2 mg/L (Daphnia pulex)

EC₅₀: 1.38 mg/L (Alga)

silver CAS No.: 7440-22-4 EC No.: 231-131-3

LC₅₀: 0.015 mg/L 2 d (shellfish)

LC₅₀: 0.00807 mg/L 4 d (fish)

EC₅₀: 0.0092 mg/L 2 d (shellfish)

EC₅₀: 0.00198 mg/L 3 d (Alga)

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0

Biodegradation: Yes, rapidly

orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2

Biodegradation: Yes, rapidly

silver CAS No.: 7440-22-4 EC No.: 231-131-3

Biodegradation: Yes, slowly

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

silver CAS No.: 7440-22-4 EC No.: 231-131-3

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

* 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

* 13.1. Waste treatment methods

The product may not be eliminated as municipal solid waste nor allowed to end up in the drainage system. These packs can be delivered packaging-specific to the existing collection points for hazardous waste.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

16 03 03 * | inorganic wastes containing hazardous substances

*: Evidence for disposal must be provided.

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Remark:

Wastecode according to regulation EU 2014/955

Waste code packaging

15 01 02	Plastic packaging
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Waste treatment options

Appropriate disposal / Product:

Dispose of used product in its original packaging as special waste.

Appropriate disposal / Package:

Empty packaging can be recycled or eliminated as municipal solid waste.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

Regulation (EU) No. 528/2012 on biocides

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

3.2.	Mixtures
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
11.2.	Information on other hazards
12.6.	Endocrine disrupting properties
13.1.	Waste treatment methods

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

16.2. Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR European agreement concerning the international carriage of dangerous goods by road

CAS Chemical Abstract Service

CLP Classification, labelling and Packaging

EC₅₀ Effective Concentration 50%

EN European norm

IATA International Air Transport Association

IMDG-Code International Maritime Dangerous Goods Code

LC₅₀ Lethal Concentration 50%

LD₅₀ Lethal Dose 50%

OECD Organization for Economic Cooperation and Development

PBT persistent, bioaccumulative, toxic

PNEC Predicted No Effect Concentration

REACH Registration, Evaluation and Authorization of Chemicals

RID Regulations concerning the international carriage of dangerous goods by rail

SVHC Substance of Very High Concern

UN United Nations

VOC Volatile organic compounds

vPvB very persistent, very bioaccumulative

16.3. Key literature references and sources for data

Security safety data sheet of the ingredients. Inventory of substances of the European Chemical Agency (ECHA). GESTIS database

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

16.6. Training advice

Persons charged with the handling and cleaning of the product must be trained prior to start their work and in regular intervals. They must be informed about the risks using the product and the measures to take for efficient prevention. This concerns particularly working security, first aid, health and environment protection.

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16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new madeup material.

* Data changed compared with the previous version.