

SAFETY DATA SHEET

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

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SANOSIL
DISINFECTANTS FOR LIFE 

Sanosil S003

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

1.1. Product identifier

Trade name/designation:

Sanosil S003

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 Republic of Ireland: National phone number 01 809 2166 Czech Republic: Toxikologické informační středisko +420 224 919 293, +420 224 915 402 Denmark: Giftlinjen +45 82 12 12 12 France: numéro ORFILA (INRS) : +33 (0)1 45 42 59 59 Italy: 06-3054343 (24h/24h), Centro antiveleni Policlinico Umberto I, Roma Spain: National Emergency Telephone Number: +34 91 562 04 20. The information will be provided in Spanish (24h/365 days). Sweden: +46 112 in case of emergency poisoning and ask for Poison Information both day and night. +46 08-331231 if you have other questions concerning acute poisonings mon-fri 9.00-17.00.

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
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

2.2. Label elements

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

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Supplemental Hazard information (EU): -

Precautionary statements Prevention	
P273	Avoid release to the environment.

Precautionary statements Disposal	
P501	Dispose of contents/container to an installation for the treatment of hazardous waste.

2.3. Other hazards

No data available

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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	hydrogen peroxide solution ... % Acute Tox. 4, Ox. Liq. 1, Skin Corr. 1A  Danger H271-H302-H314-H332	0 - ≤ 1.5 Wt %
CAS No.: 7664-38-2 EC No.: 231-633-2	orthophosphoric acid Skin Corr. 1B  Danger H314	0 - ≤ 0.1 Wt %
CAS No.: 7440-22-4 EC No.: 231-131-3	silver Aquatic Acute 1, Aquatic Chronic 1  Warning H400-H410 M-factor (acute): 10 M-factor (chronic): 10	0 - ≤ 0.03 Wt %

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

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 place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing.

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.

After 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 medical advice/attention if you feel unwell.

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

No data available

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:

The product itself does not burn. Water, Dry extinguishing powder, Carbon dioxide, alcohol resistant foam.

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

In case of fire: Carbon monoxide. Carbon dioxide (CO₂).

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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.

6.1.2. For emergency responders

Personal protection equipment:

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, eg. floor pan without outflow. Absorb with liquid-binding material (e.g. 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:

The simultaneous handling of incompatible substances and mixtures must be prevented. Wear personal protection equipment (refer to section 8).

Use: Surface disinfection with wipes.

Do not use for sputtering or spraying.

Advices on general occupational hygiene

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

* 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.

Hints on storage assembly:

Do not store together with strong acids.

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Storage class: 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:

The product must whether be sprayed nor misted for disinfection.

Food must not be brought into direct contact with disinfectants or their application solutions. Residues on treated work surfaces, equipment and apparatus should be kept as low as possible by rinsing with drinking water.

The use of chemical disinfectants on surfaces and equipment as well as in vessels must be restricted to non-absorbent materials (metals, glass, ceramics, possibly to non-softened plastics).

After the prescribed exposure time, the disinfected surfaces and equipment as well as the vessels must be rinsed several times with fresh water of drinking water quality.

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 solution ... % CAS No.: 7722-84-1	① 1 ppm (1.4 mg/m ³)
VLA (FR)	hydrogen peroxide solution ... % CAS No.: 7722-84-1	① 1 ppm (1.5 mg/m ³)
WEL (GB)	hydrogen peroxide solution ... % CAS No.: 7722-84-1	① 1 ppm (1.4 mg/m ³) ② 2 ppm (2.8 mg/m ³)
OSHA (US)	hydrogen peroxide solution ... % CAS No.: 7722-84-1	① 1 ppm (1.4 mg/m ³)
NIOSH (US)	hydrogen peroxide solution ... % CAS No.: 7722-84-1	① 1 ppm (1.4 mg/m ³)
ACGIH (US)	hydrogen peroxide solution ... % CAS No.: 7722-84-1	① 1 ppm (1.4 mg/m ³)
ES	orthophosphoric acid CAS No.: 7664-38-2	① 1 mg/m ³ ② 2 mg/m ³ ⑤ VLI, s
IOELV (EU)	orthophosphoric acid CAS No.: 7664-38-2	① 1 mg/m ³ ② 2 mg/m ³
VRI (FR)	orthophosphoric acid CAS No.: 7664-38-2	① 0.2 ppm (1 mg/m ³) ② 0.5 ppm (2 mg/m ³) ⑤ réglementaire indicative
WEL (GB)	orthophosphoric acid CAS No.: 7664-38-2	① 1 mg/m ³ ② 2 mg/m ³
OSHA (US)	orthophosphoric acid CAS No.: 7664-38-2	① 1 mg/m ³
NIOSH (US)	orthophosphoric acid CAS No.: 7664-38-2	① 1 mg/m ³ ② 3 mg/m ³
ACGIH (US)	orthophosphoric acid CAS No.: 7664-38-2	① 1 mg/m ³ ② 3 mg/m ³

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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
IOELV (EU)	silver CAS No.: 7440-22-4	① 0.01 mg/m ³ ⑤ (Silver compounds, soluble, calculated as Ag)
VRI (FR)	silver CAS No.: 7440-22-4	① 0.01 mg/m ³ ⑤ (réglementaire indicative) Argent composés, soluble, exprimé en Ag
WEL (GB)	silver CAS No.: 7440-22-4	① 0.01 mg/m ³ ⑤ (compounds, soluble; calculated as Ag)
NIOSH (US)	silver CAS No.: 7440-22-4	① 0.01 mg/m ³ ⑤ compounds, soluble; calculated as Ag
IOELV (EU)	silver CAS No.: 7440-22-4	① 0.1 mg/m ³ ⑤ (metal)
WEL (GB)	silver CAS No.: 7440-22-4	① 0.1 mg/m ³ ⑤ (metal)
VRI (FR)	silver CAS No.: 7440-22-4	① 0.1 mg/m ³ ⑤ (réglementaire indicative; métal)
ACGIH (US)	silver CAS No.: 7440-22-4	① 0.01 mg/m ³ ⑤ compounds, soluble
OSHA (US)	silver CAS No.: 7440-22-4	① 0.01 mg/m ³
ES	silver CAS No.: 7440-22-4	① 0.1 mg/m ³
ES	silver CAS No.: 7440-22-4	① 0.1 mg/m ³ ⑤ (metal, fracción inhalable)
NIOSH (US)	silver CAS No.: 7440-22-4	① 0.01 mg/m ³
ACGIH (US)	silver CAS No.: 7440-22-4	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 exhaustion at critical locations.

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection DIN EN 166

Skin protection:

Use protective gloves in accordance to EN 374. The following material is suitable: NBR Tested protective gloves must be worn EN ISO 374

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Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

In case of an application by wiping >30 min, a respirator with gas filter (against CAS 7722-84-1) must be used. Filter type: 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: colourless

Odour: odourless

Safety relevant basis data

parameter		at °C	Method	Remark
pH	2 - 3	20 °C		
Melting point	-1 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	100 °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	1.9 hPa	20 °C		Hydrogen peroxide
Vapour density	<i>not determined</i>			
Density	1 g/cm ³	20 °C		
Bulk density	<i>not applicable</i>			
Water solubility	completely miscible	20 °C		
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 hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Strong acid, Strong alkali, Oxidizing agent

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No known hazardous decomposition products.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
7722-84-1	hydrogen peroxide solution ... %	LD₅₀ oral: 376 mg/kg (Rat) LD₅₀ dermal: 3,000 mg/kg (Rat) LC₅₀ Acute inhalation toxicity (vapour): 2 mg/l 4 h (Rat)
7664-38-2	orthophosphoric acid	LD₅₀ oral: 1,530 mg/kg (Rat) LD₅₀ dermal: 2,740 mg/kg (Rabbit)

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:

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

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.

Additional information:

No data available

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
7722-84-1	hydrogen peroxide solution ... %	LC₅₀: 16.4 mg/l (Fish) LC₅₀: 2 mg/l (Daphnia pulex) EC₅₀: 1.38 mg/l (Alga)
7440-22-4	silver	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)

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Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
7440-22-4	silver	No	

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
7722-84-1	hydrogen peroxide solution ... %	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
7664-38-2	orthophosphoric acid	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
7440-22-4	silver	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. 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 05 07 *	discarded inorganic chemicals consisting of or containing hazardous substances
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*: Evidence for disposal must be provided.

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:

Residues of the product have to be collected as hazardous waste.

Appropriate disposal / Package:

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

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
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.

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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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

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

not relevant

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Regulation (EU) No. 528/2012 on biocides

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

6.3.	Methods and material for containment and cleaning up
7.1.	Precautions for safe handling
7.2.	Conditions for safe storage, including any incompatibilities
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
13.1.	Waste treatment methods

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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]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

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

Hazard statements	
H271	May cause fire or explosion; strong oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
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.

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