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

1.1. Product identifier

Trade name/designation:

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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 Nederlands: +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
	H412: Harmful to aquatic life with long lasting effects.	

2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements for environmental hazards

Harmful to aquatic life with long lasting effects. H412

Supplemental hazard information: none

Precautionary statements Prevention P273

Avoid release to the environment.

2.3. Other hazards

No data available

en / US / GB / IT / ES / FR

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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 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) $\bigcirc \bigcirc $	> 1 - < 5 weight-%
CAS No.: 7664-38-2 EC No.: 231-633-2 Index No.: 015-011-00-6 REACH No.: 01-2119485924-24-XXXX	orthophosphoric acidSkin Corr. 1B (H314) \longleftrightarrow DangerSpecific concentration limit (SCL)Skin Corr. 1B; H314: C ≥ 25%Skin Irrit. 2; H315: 10% ≤ C < 25%	< 0.5 weight-%
CAS No.: 7440-22-4 EC No.: 231-131-3 REACH No.: 01-2119555669-21-0036 Full text of H- and EUH-phra	silver Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410) Warning M-factor (acute): 1,000 M-factor (chronic): 100	< 0.01 weight-%

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 No data available

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

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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.

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:

The simultaneous handling of incompatible substances and mixtures must be prevented. 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.

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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

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	 Long-term occupational exposure limit value Short-term occupational exposure limit value Instantaneous value Monitoring and observation processes 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 ppm (1.5 mg/m³)
WEL (GB)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	 1 ppm (1.4 mg/m³) 2 ppm (2.8 mg/m³)
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 ppm (1.4 mg/m³)
NIOSH (US)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	 1 ppm (1.4 mg/m³)
ACGIH (US)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	 1 ppm (1.4 mg/m³)
ES	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	 1 mg/m³ 2 mg/m³ VLI, s
ioelv (EU)	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	 1 mg/m³ 2 mg/m³
VRI (FR) from 3 May 2021	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	 0.2 ppm (1 mg/m³) 0.5 ppm (2 mg/m³)
WEL (GB)	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	 1 mg/m³ 2 mg/m³

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Limit value type (country of origin)	Substance name	 Long-term occupational exposure limit value Short-term occupational exposure limit value Instantaneous value Monitoring and observation processes Remark
OSHA (US)	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	① 1 mg/m³
NIOSH (US)	orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2	 1 mg/m³ 3 mg/m³
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	 0.01 mg/m³ (silver compounds, soluble, calculated as Ag)
VRI (FR) from 3 May 2021	silver CAS No.: 7440-22-4 EC No.: 231-131-3	 0.01 mg/m³ Argent composés, soluble, calculé comme Ag
WEL (GB)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	 0.01 mg/m³ (compounds, soluble; calculated as Ag)
NIOSH (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	 ① 0.01 mg/m³ 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/m³ ⑤ (métal)
ACGIH (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	 0.01 mg/m³ compounds, soluble
OSHA (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m³
ES from 1 May 2021	silver CAS No.: 7440-22-4 EC No.: 231-131-3	 0.01 mg/m³ (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/m3
IDLH (US) from 1 Jan 1994	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 10 Ag/m3⑤ (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

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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 EN 166

Skin protection:

Use protective gloves in accordance to EN 374. The following material is suitable: NBR

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 **Odour:** not determined

Colour: not determined

Safety relevant basis data

Parameter	Value	at °C	1 Method
			② Remark
рН	2 - 2.5	20 °C	
Melting point	≈ -2 °C		
Freezing point	not determined		
Initial boiling point and boiling range	101 °C		
Decomposition temperature	not determined		
Flash point	not applicable		
Evaporation rate	not determined		
Auto-ignition temperature	not applicable		
Upper/lower flammability or explosive limits	not applicable		
Vapour pressure	23 hPa	20 °C	
Vapour density	not determined		
Density	1 g/cm³	20 °C	
Relative density	not determined		
Bulk density	not applicable		
Water solubility	completely miscible		
Partition coefficient: n-octanol/water	not determined		
Dynamic viscosity	not determined		
Kinematic viscosity	not determined		

9.2. Other information

No data available

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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

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

No known hazardous decomposition products.

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
LD ₅₀ oral: 376 mg/kg (Rat)
LD ₅₀ dermal: 3,000 mg/kg (Rat)
LC ₅₀ Acute inhalation toxicity (vapour): 2 mg/L 4 h (Rat)
orthophosphoric acid CAS No.: 7664-38-2 EC No.: 231-633-2
LD ₅₀ 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:
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.
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* 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.

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:

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

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 nontarget 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.

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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.

Remark:

Wastecode according to regulation EU 2014/955:

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.			
14.2. UN proper ship	ping name		
No dangerous good in sense of these transport regulations.			
14.3. Transport haza	rd 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 precau	tions for user		
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments No data available

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
 - 9.1. Information on basic physical and chemical properties
- 11.2. Information on other hazards

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12.6. Endocrine disrupting properties

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
· · · · · · · · · · · · · · · · · · ·	H412: Harmful to aquatic life with long lasting effects.	

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

Hazard state	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 mesures 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

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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.