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### SanoClean Forte S



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

#### 1.1. Product identifier

Trade name/designation:

SanoClean Forte S

# **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 pro cedure	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation method.	
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 pictograms:



Exclamation mark

H319

Signal word: Warning

hazard statements for health hazards

Causes serious eye irritation.

en / US / GB / ES / FR / IT

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#### Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

#### Supplemental hazard information: -

	ents Prevention
P273 Avo	oid release to the environment.
P280 Wea	ear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statements Response

	recautionary statements response		
		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]	Concen- tration
CAS No.: 7722-84-1 EC No.: 231-765-0 REACH No.: 01-2119485845-22-XXXX	hydrogen peroxide Acute Tox. 4, Ox. Liq. 1, Skin Corr. 1A	5 - < 8 weight-%
<b>CAS No.:</b> 160875-66-1	Poly(oxy-1,2-ethanediyl), alpha(2- propylheptyl)omega hydroxy Acute Tox. 4, Eye Dam. 1	0.5 - < 1 weight-%
CAS No.: 26468-86-0	2-Ethylhexanol-3 EO Eye Dam. 1 Danger H318	0.5 - < 1 weight-%
CAS No.: 7440-22-4 EC No.: 231-131-3 REACH No.: 01-2119555669-21-0036	silver Aquatic Chronic 1 H410 M-factor (acute): 100 M-factor (chronic): 100	< 0.02 weight-%

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 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:

Provide fresh air. 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.

#### 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.

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#### 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:

The product itself does not burn. 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

#### Hazardous combustion products:

Carbon monoxide, Carbon dioxide

#### 5.3. Advice 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.

#### 6.3. Methods and material for containment and cleaning up

#### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### 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

Use appropriate container to avoid environmental contamination.

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### **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 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.

#### 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.

Storage class: 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	<ol> <li>Long-term occupational exposure limit value</li> <li>short-term occupational exposure limit value</li> <li>Instantaneous value</li> <li>Monitoring and observation processes</li> </ol>		
		§ Remark		
ES	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.4 mg/m³)		
VLA (FR)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.5 mg/m <sup>3</sup> )		
WEL (GB)	hydrogen peroxide	<ol> <li>1 ppm (1.4 mg/m<sup>3</sup>)</li> </ol>		
	CAS No.: 7722-84-1 EC No.: 231-765-0	② 2 ppm (2.8 mg/m³)		
OSHA (US)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.4 mg/m <sup>3</sup> )		
NIOSH (US)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.4 mg/m <sup>3</sup> )		
ACGIH (US)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.4 mg/m³)		
IOELV (EU)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	<ol> <li>0.01 mg/m<sup>3</sup></li> <li>(silver compounds, soluble, calculated as Ag )</li> </ol>		
VRI (FR)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	<ul> <li>① 0.01 mg/m<sup>3</sup></li> <li>⑤ (réglementaire indicative) Argent composés, soluble, calcu lé comme Ag</li> </ul>		
WEL (GB)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	<ol> <li>① 0.01 mg/m<sup>3</sup></li> <li>⑤ (compounds, soluble; calculated as Ag)</li> </ol>		

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Limit value type (country of origin)	Substance name	<ol> <li>Long-term occupational exposure limit value</li> <li>short-term occupational exposure limit value</li> <li>Instantaneous value</li> <li>Monitoring and observation processes</li> <li>Remark</li> </ol>
NIOSH (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	<ol> <li>0.01 mg/m<sup>3</sup></li> <li>compounds, soluble; calculated as Ag</li> </ol>
IOELV (EU)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	1 0.1 mg/m <sup>3</sup> (5) (metal)
WEL (GB)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	1 0.1 mg/m <sup>3</sup> (5) (metal)
VRI (FR)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	<ol> <li>0.1 mg/m<sup>3</sup></li> <li>(réglementaire indicative; métal)</li> </ol>
ACGIH (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	0.01 mg/m <sup>3</sup> S compounds, soluble
OSHA (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m³
ES	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.1 mg/m³
ES	silver CAS No.: 7440-22-4 EC No.: 231-131-3	<ol> <li>0.1 mg/m<sup>3</sup></li> <li>(metal, fracción inhalable)</li> </ol>
NIOSH (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m <sup>3</sup>
ACGIH (US)	silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.1 mg/m³

### 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

#### **Respiratory protection:**

In case of inadequate ventilation wear respiratory protection. Respiratory protection according to EN 136 or EN 140 with filter ABEK-P3.

#### 8.2.3. Environmental exposure controls

No data available

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### SanoClean Forte S

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: Liquid Odour: odourless Colour: colourless

#### Safety relevant basis data

parameter		at °C	Method	Remark
рН	2 - 4	20 °C		
Melting point	≈ 0 °C			
Freezing point	not determined			
Initial boiling point and boiling range	> 100 °C			
Decomposition temperature	not applicable			
Flash point	not determined			
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		
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

#### **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

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

11.1. Information on toxicological effects				
Substance name	Toxicological information			
hydrogen peroxide	LD <sub>50</sub> oral:			
CAS No.: 7722-84-1 EC No.: 231-765-0	376 mg/kg (Rat)			
EC NO.: 251-703-0	LD <sub>50</sub> dermal:			
	3,000 mg/kg (Rat)			
	LC <sub>50</sub> Acute inhalation toxicity (vapour):			
	2 mg/l 4 h (Rat)			
Acute oral toxicity:				
Based on available data, the classification criteria a	re not met.			
Acute dermal toxicity:				
Based on available data, the classification criteria a	re not met.			
Acute inhalation toxicity:				
Based on available data, the classification criteria a	re not met.			
Skin corrosion/irritation:				
Causes serious eye irritation.				
Serious eye damage/irritation:				
Based on available data, the classification criteria a	re not met.			
Respiratory or skin sensitisation:				
Based on available data, the classification criteria a	re not met.			
Germ cell mutagenicity: Based on available data, the classification criteria a	vo not mot			
-	re not met.			
Carcinogenicity: Based on available data, the classification criteria a	re not met			
Reproductive toxicity:	Te not met.			
Based on available data, the classification criteria a	re not met			
STOT-single exposure:				
Based on available data, the classification criteria a	re not met.			
STOT-repeated exposure:				
Based on available data, the classification criteria a	re not met.			
Aspiration hazard:				
Based on available data, the classification criteria a	re not met.			
SECTION 12 Ecological information				

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Substance name	Toxicological information		
hydrogen peroxide	LC <sub>50</sub> : 16.4 mg/l (Fish)		
CAS No.: 7722-84-1 EC No.: 231-765-0	LC <sub>50</sub> : 2 mg/l (Daphnia pulex)		
	<b>EC<sub>50</sub>:</b> 1.38 mg/l (Alga)		
silver	LC <sub>50</sub> : 0.015 mg/l 2 d (shellfish)		
CAS No.: 7440-22-4 EC No.: 231-131-3	<b>LC<sub>50</sub>:</b> 0.00807 mg/l 4 d (fish)		
	EC50: 0.0092 mg/l 2 d (shellfish)		
	EC <sub>50</sub> : 0.00198 mg/l 3 d (Alga)		

#### Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

Substance name	Biodegradation	Remark
hydrogen peroxide	Yes, rapidly	
CAS No.: 7722-84-1		

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Biodegradation	Remark

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Substance name	Biodegradation	Remark
EC No.: 231-765-0		
silver	Yes, slowly	
CAS No.: 7440-22-4		
EC No.: 231-131-3		

#### **12.3. Bioaccumulative potential** No data available

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
Poly(oxy-1,2-ethanediyl), alpha(2- propylheptyl)omegahydroxy CAS No.: 160875-66-1	The substance in the mixture does not meet the PBT/ vPvB criteria according to REACH, annex XIII.
hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	The substance in the mixture does not meet the PBT/ vPvB criteria according to REACH, annex XIII.
silver CAS No.: 7440-22-4 EC No.: 231-131-3	The substance in the mixture does not meet the PBT/ vPvB criteria according to REACH, annex XIII.
2-Ethylhexanol-3 EO CAS No.: 26468-86-0	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

\*: 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**

No dangerous good in sense of these transport regulations.

Land transport (ADR/	Inland waterway	Sea transport (IMDG)	Air transport (ICAO-
RID)	craft (ADN)		TI / IATA-DGR)
14.1. UN-No.			
No dangerous good	No dangerous good	No dangerous good	No dangerous good
in sense of these			
transport regulations.	transport regulations.	transport regulations.	transport regulations.

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Land transport (ADR/ RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO- TI / IATA-DGR)
14.2. UN proper sh	ipping 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 ha	zard class(es)		
not relevant			
14.4. Packing grou	р		
not relevant			
14.5. Environment	al hazards		

not relevant

#### 14.6. Special precautions for user

not relevant

## 14.7. Transport in bulk according to Annex II of Marpol 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

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

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### SanoClean Forte S

#### 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 pro cedure
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation method.
Hazardous to the aquatic environment (Aquatic Chronic 3)	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.	
H318	Causes serious eye damage.	
H332	Harmful if inhaled.	
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 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.

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\* Data changed compared with the previous version

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