

## Sanosil HaloMist™ Safety Data Sheet

Issuing Date 01-June-2015 Revision Date 16-June-2015

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name Sanosil HaloMist

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Disinfectant (Aerosol) Surfaces

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name Sanosil International

**Supplier Address** 91 Lukens Drive

New Castle DE 19720 US

**Supplier Phone Number** Phone:302-454-8102

Supplier Email sales@sanosilinternational.com

Emergency telephone number CHEMTREC US and Canada-1-800-434-9300, Outside US-1-703-527-3887

**Company Emergency Phone** 

Number

302-454-8102

## 2. HAZARDS IDENTIFICATION

## Classification

Eye Irrit 2B H320

Eye irritation Category 2 Sub-category B

#### GHS Label elements, including precautionary statements

Emergency Overview

Signal word Warning

Hazard Statements
H320-Causes eye irritation

GHS07

## **Precautionary Statements - Prevention**

**Appearance** Colorless

P-280 -Wear Protective gloves/protective clothing and eye/face protection and breathing protection.

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

Physical state Liquid

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

## **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

#### Hazards not otherwise classified (HNOC)

Not applicable

#### **Unknown Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

**Odor** Odorless

#### Other information

#### **Interactions with Other Chemicals**

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical Name	CAS No	Weight-%	Trade Secret
Hydrogen peroxide	7722-84-1	5.00	
Silver nitrate	7761-88-8	.01	
Other ingredients		94.99	x

## 4. FIRST AID MEASURES

#### First aid measures

<u>General Advice</u> Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show label where psissible).

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate

medical attention/advice.

**Skin contact** Wash off immediately with plenty of water for 15 minutes while removing all

contaminated clothes and shoes. Seek immediate medical attention/advice.

**Inhalation** Remove to fresh air. If breathing has stopped, give artificial respiration. Get

medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If

breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary

edema may occur. Get medical attention immediately if symptoms occur.

**Ingestion** Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

Never give anything by mouth to an unconscious person. Call a physician or

poison control center immediately.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take

precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as

required. Wear personal protective clothing (see section 8).

## Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: May be irritating to the mucous membranes and to the respiratory system. Symptoms/injuries after skin contact: Frequent or prolonged contact with skin may cause dermal irritation

Symptoms/injuries after eye contact: Causes serious eye irritation.

Symptoms/injuries after injestion: May cause burns or irritation of the linings of the mouth, throat and GI tract.

## Indication of any immediate medical attention and special treatment needed

No additional information available

## 5. FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

Flood with plenty of water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## Unsuitable extinguishing media

CAUTION: Organic compounds. As hydrogen peroxide my react with a variety of organic materials and form explosive mixtures, shock sensitive compounds and initiate fire. Foam is not effective as oxygen and heat continue to be generated under the foam.

#### Specific hazards arising from the chemical

Hazardous decomposition products in case of fire. : Thermal decomposition can lead to release of oxygen which may intensify fire. Containers may swell and burst during a fire due to internal pressure caused by heat.

#### Advice for firefighters

Firefighting instructions: Exercise caution when fighting any chemical fire.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General Measures: Insure adequate ventilation. Do not breathe fumes, vapors. Avoid contact with skin, eyes

and clothes

Non-emergency Personnel

precautions

Use personal protective equipment as required. Evacuate personnel to safe areas. Keep

people away from and upwind of spill/leak.

Other Information

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Emergency responders
Protective equipment:

Emergency procedures:

Equip cleanup crew with proper protection

Stop leak if safe to do so. Evacuate unnecessary personnel. Ventilate area.

## **Environmental precautions**

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so. Prevent product from entering drains.

Refer to protective measures listed in Sections 7 and 8.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain any spills with dikes. To prevent migration and entry into sewers or streams. Soak

up with inert absorbent material. Do not absorb in sawdust, paper cloth or other combustible absorbents. Comply with applicable local, national and international

regulation.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Handling** Read label before use. Provide good ventilation in process area to prevent formation of

vapor. Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from incompatible materials. Wash hands and other exposed areas with mild soap before eating, drinking or smoking and when leaving work. Do not wear leather soled shoes.

Take care for general hygiene and housekeeping. Wash hands thoroughly after handling. Do not eat drink or smoke when using this product. Contaminated clothing should be

washed thoroughly in order to eliminate a delayed potential fire hazard.

#### Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from

moisture. Store locked up. Keep out of the reach of children. Store away from other incompatible materials. Strong alkalis, strong oxidizing agents. Organic materials.

Reducing agents. Metal salts. Alkali Metals, wood, paper Copper and it's alloys. Keep away

from heat and direct sunlight. Do not freeze.

**Incompatible Products** Acids. Bases. Oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen peroxide	TWA: 1 ppm	TWA: 1 ppm	IDLH: 75 ppm
7722-84-1		TWA: 1.4 mg/m <sup>3</sup>	TWA: 1 ppm
		(vacated) TWA: 1 ppm	TWA: 1.4 mg/m <sup>3</sup>
		(vacated) TWA: 1.4 mg/m <sup>3</sup>	-

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

**Other Exposure Guidelines** 

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

#### Appropriate engineering controls

**Engineering Measures** 

Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be in the immediate vicinity of any potential exposure. Avoid all unnecessary exposure. Personal protective equipment should be selected upon the conditions under which this product is handled or used.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear protective eyewear. Safety goggles and ½ face or full face respirator.

**Skin and body protection** Wear protective gloves and protective clothing. Long sleeved clothing. Neoprene gloves.

Respiratory protection

Hydrogen Peroxide levels between 1 and 10 ppm requires at least half-face piece respirator (and appropriate eye protection) with either 3M 6003 or 6006 (organic vapor/acid gas or multi-gas) cartridge in combination with particulate filter (i.e. 5N11 or 5P71).\*

(\* 3M Technical Bulletin #185 and Solvay Chemicals Technical Communications TDS-No. HOOH-PAA-RESP.) If levels exceed 50 ppm, a full SCBA is necessary.

If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may

be required.

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use.

Odor

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical and Chemical Properties**

Physical state Liquid Appearance Colorless

Color Colorless Odor Threshold No information available

PropertyValuesRemarks MethodpH3.0None known

Odorless

Melting / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlash PointNo data availableNone knownEvaporation RateNo data availableNone knownFlammability (solid, gas)No data availableNone known

Flammability Limit in Air

Upper flammability limit

Lower flammability limit

No data available

No data available

Vapor pressure No data available None known Vapor density No data available None known **Specific Gravity** No data available None known Water Solubility Completely soluble None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known Autoignition temperature No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known

Explosive properties Not explosive Oxidizing properties oxidizer

#### **Other Information**

Softening Point

VOC Content (%)

Particle Size

No data available

No data available

No data available

**Particle Size Distribution** 

## 10. STABILITY AND REACTIVITY

## Reactivity

Thermal decomposition generates corrosive vapors.

## **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Hazardous Polymerization**

Hazardous polymerization does not occur.

#### Conditions to avoid

Exposure to extremely high or low temperatures

#### Incompatible materials

Acids. Bases. Oxidizing agent. Organic materials, reducing agents, metal salts, readily oxidizible materials such as paper, wood, sulfur, copper and it's alloys.

## **Hazardous Decomposition Products**

Oxygen.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** Moderate eye irritant. (based on product). .

**Skin contact** Slight irritant. (based on product).

Ingestion

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Product	>5000 mg/kg (Rat)	>5000 mg/kg (Rabbit)	= 2 g/m <sup>3</sup> (Rat) 4 h

#### Information on toxicological effects

**Symptoms** May cause temporary skin whiteness. Coughing and/ or wheezing. Eye irritation.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** Guinea Pig, non-sensitizing (skin).

Mutagenic Effects No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrogen peroxide	A3	Group 3		
7722-84-1		•		

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

**Reproductive toxicity**No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** No known effect based on information supplied. Carcinogenic potential is unknown.

**Target Organ Effects** Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Blood. Lungs.

**Aspiration Hazard** No information available.

## Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

801.000 mg/kg bodyweight

ATEmix (dermal)

2000 mg/kg bodyweight

ATEmix (inhalation-gas)

4500.000 ppm V/4 h

ATEmix (inhalation-dust/mist)

2000 mg/l 4h

## ATEmix (inhalation-vapor)

2000.mg/l 4h ATEmix

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Hydrogen peroxide	72h EC50: = 2.5 mg/L	96h LC50: = 16.4 mg/L		48h EC50: 18 - 32 mg/L 24h
7722-84-1	(Chlorella vulgaris)	(Pimephales promelas) 96h		EC50: = 7.7 mg/L
		LC50: 18 - 56 mg/L		
		(Lepomis macrochirus) 96h		
		LC50: 10.0 - 32.0 mg/L		
		(Oncorhynchus mykiss)		

#### **Persistence and Degradability**

No information available.

## **Bioaccumulation**

Not established

## Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal methods**This material, as supplied, is not a hazardous waste according to Federal regulations (40)

CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local

regulations for additional requirements.

**Contaminated Packaging** Dispose of contents/containers in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Hydrogen peroxide	Toxic
7722-84-1	Corrosive
	Ignitable
	Reactive

## 14. TRANSPORT INFORMATION

DOTNOT REGULATEDProper Shipping NameNON REGULATED

Hazard Class N/A

TDG Not regulated

MEX Not regulated

<u>ICAO</u> Not regulated

IATA Not regulated

Proper Shipping Name NON REGULATED

Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A Marine Pollutant N/A

RID Not regulated

ADR Not regulated

ADN Not regulated

## 15. REGULATORY INFORMATION

## **International Inventories**

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **US Federal Regulations**

EPA Registration #84526-6

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardNoFire HazardNoSudden release of pressure hazardNoReactive HazardNo

## **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen peroxide 7722-84-1	Х	Х	X	X

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances	RQ
		RQs	

Hydrogen peroxide	1000 lb (concentration >52%)	
7722-84-1		

## **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

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Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Hydrogen peroxide	X	X	Χ	X	
7722-84-1					
Supplier Trade Secret	Х	Х	Х	Х	
Supplier Trade Secret	Х	Х	Х	Х	

## International Regulations

#### Mexico

**National occupational exposure limits** 

Component	Carcinogen Status	Exposure Limits
Hydrogen peroxide	A3	Mexico: TWA 1 ppm
7722-84-1 (5%)		Mexico: TWA 1.5 mg/m <sup>3</sup>
		Mexico: STEL 2 ppm
		Mexico: STEL 3 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

## 16. OTHER INFORMATION

NFPA Health Hazards 1 Flammability 0 Instability 0 Physical and Chemical Hazards - HMIS Health Hazards 1 Flammability 0 Physical Hazard 0 Personal Protection

Prepared By Sanosil International Revision Date Sanosil International

Revision Note GHS SDS-3

## **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of Safety Data Sheet**

A3 - Confirmed Animal Carcinogen