



SAFETY DATA SHEET

Issue Date Jan 31, 2014

1. Product and Company Identification

Product Name:

Sanosil **HaloSpray**

Company & Manufacturer Identification:

Sanosil International, LLC
91 Lukens Dr. Ste A
New Castle, DE 19702
USA
www.sanosilglobal.com

Customer Information Number: (302) 454-8102

EMERGENCY TELEPHONE NUMBER:

CHEMTREC®
US & Canada 1-800-424-9300
Outside US & Canada +1-703-527-3887

2. Hazards Identification



Hazard Designation: Moderate Eye Irritant

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

3. Composition Information

Chemical Characterization

Description: Liquid mixture of the substances listed below with harmless additions.
Active Ingredients: Hydrogen Peroxide 5% (CAS#7722-84-1) ; Silver .01% (CAS#7440-22-4)

4. First-Aid Measures

- **INHALATION:** Remove to fresh air. If breathing difficulty or discomfort occurs and persists, get medical attention.
- **SKIN CONTACT:** Wash with plenty of soap and water. Get medical attention if irritation occurs and persists.
- **EYE CONTACT:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.

- **INGESTION:** Rinse mouth with water. Dilute by giving 1 to 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. Fire Fighting Measures

Extinguishing Media: Flood with water.

Fire/Explosion Hazards: Product is non-combustible. In decomposition, oxygen will be released which may intensify fire.

6. Accidental Release Measures

- Person-related safety precautions: Not required.
- Measures for environmental protection; Dilute with large volumes of water.
- Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Disposal of aqueous solutions of this product should be in compliance with Federal, State and Local regulations.

7. Handling & Storage

Handling:

1. Keep away from heat and direct sunlight.
2. Protection against explosions and fires: No special measures required.

Storage:

1. Requirements to be met by storerooms and containers: Do not allow to freeze.
2. Common storage facility: Contact with combustible materials may cause fire.
3. Keep containers tightly sealed.
4. Store in original container in areas inaccessible to small children and pets.

8. Exposure Controls and Personal Protection

- Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace:
 - OSHA Permissible Exposure Level of 1.0 ppm for Hydrogen Peroxide as 8 hour TWA.
 - OSHA Permissible Exposure Level of 0.01 ppm for Silver as 8 hr. TWA.
- Additional Information: The lists that were valid during the compilation were used as basis.
- Personal protective equipment:
 - General protective and hygienic measures
 - Keep away from foodstuffs, beverages and food.
 - Remove immediately any contaminated clothing.
 - Wash hands during breaks and at the end of the workday.
 - Avoid contact with eyes and clothing.
 - Breathing equipment: Not required unless fogging: 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.

- o Eye Protection: Tightly sealed safety glasses or goggles are recommended.

9. Physical and Chemical Properties

General Information

Form: Fluid
Color: Colorless
Odor: None

Change in Condition

Melting point/Melting range: < 0° C (< 32° F)
Boiling point/Boiling range: < 80° C (< 176° F)

Flash point: Non-combustible

Self-inflammability: Product is not self-igniting.

Danger of Explosion: Product is not explosive.

Vapor Pressure: 23 hPa (at 20° C or 68° F)

Density: 1.019 g/cm³ (at 20° C or 68° F)

Solubility in Water: Fully soluble

pH-value: 3.5

Solvent content: Organic solvents = 0.0%; Water = ca. 95%

10. Stability & Reactivity

Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications. Dangerous products of decomposition: Oxygen

11. Toxicological Information

Acute toxicity: Oral route, LD 50, rat, >5000 mg/kg
Dermal route, LD 50, rabbit, >5000 mg/kg
Inhalation, LC 50, 4 hours, rat, 2.08 mg/L

Irritation: Eyes: rabbit, moderate eye irritant
Skin: rabbit, 1 hour slight irritant

Sensitization: Guinea pig, non-sensitizing (skin)

12. Ecological Information

Hydrogen peroxide, (50%) is slightly toxic to freshwater fish (LC50, fathead minnow = 16.4 mg/L) and moderately toxic to freshwater invertebrates (LC50, daphnia magna = 7.7 mg/L).

13. Disposal Considerations

Do not contaminate water, food, or feed by storage and disposal. Keep out of direct sunlight and away from heat. Do not reuse or refill this container. If product leaking or spills should occur, please dilute with water and dry with absorbent material, or dilute with water as it is flushed into waste water drain. Offer container for recycling, if available or (replace cap and) discard in trash.

Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements will vary by location and are dependent on the type of disposal selected. All waste materials should be reviewed to determine the applicable hazards (testing may be necessary).

14. Transport Information

Land transport ADR/RID (cross-border)
ADR/RID-GGVS/E Class

Maritime transport IMDG:
IMDG Class:
Marine Pollutant: No

Air transport ICAO-TI and IAIA-DGR:
ICAO/IATA Class

Not Regulated

U.S. Department of Transportation (DOT)

Proper shipping Name: Not Regulated
Primary Hazard Class/Division: Not applicable
UN/NA Number: None
Label(s): Not applicable
Placards(s): Not applicable
Additional Information: DOT Marking: Not applicable
Hazardous Substance/RQ: Not applicable
49 STCC Number: Not applicable

Canada (TDG)

Proper shipping Name: Not Regulated
Primary Hazard Class/Division: Not applicable
UN/NA Number: None
Label(s): Not applicable
Placards(s): Not applicable
Additional Information: TDG PIN: Not applicable

15. Regulatory Information

Sanosil HaloSpray is FIFRA registered: EPA #84526-1

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	NO
Delayed (Chronic) Health Hazard	NO
Fire Hazard	NO
Reactive Hazard	NO
Sudden Release of Pressure Hazard	NO

Pennsylvania (Worker and Community Right-to-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Pennsylvania (Worker and Community Right-to-Know Act): Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

US Toxic Substances Control Act (TSCA)

This product contains chemical substance(s) exempt from TSCA Inventory requirements. It is sold solely for use as a pesticide subject to Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) requirements.

16. Other Information

Hazard Rating System

NFPA	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Special</u>
	1	0	0	None

Recommended Uses and Restrictions

All purpose Surface Disinfectant.

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change and may differ between locations. It is the user's responsibility to adhere to appropriate rules and regulations governing your area.

