Material safety data sheet

OTGUARD SILVI

1. Product Identification

MSDS Name: OTGUARD SILVI (Hydrogen Peroxide and Silver Nitrate combination -

Hospital Disinfectant)

2. Composition/Information on Ingredients

CAS#	Chemical Name	%	EINECS#
7722-84-1	Hydrogen peroxide	10-11%	231-765-0
20667-12-3	Silver Nitrate	0.01%	243-957-1
7732-18-5	Water	Balance	231-791-2

Hazard Symbols: C Risk Phrases: 34

3. Hazards Identification

EMERGENCY OVERVIEW

Appearance: APHA: 10 max.

Danger! Strong oxidizer. Contact with other material may cause a fire. Harmful if inhaled. Corrosive. Causes eye and skin burns. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns.

Target Organs: None known.

Potential Health Effects

Eye:

Causes eye burns. Produces irritation, characterized by a burning sensation,

redness, tearing, inflammation, and possible corneal injury.

<u>Skin:</u>

Causes skin burns.

Ingestion:

May cause severe and permanent damage to the digestive tract. Causes

Gastrointestinal tract burns. May cause perforation of the digestive tract. May cause

Severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhoea. <u>Inhalation:</u>

Harmful if inhaled. May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, hortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract. May cause ulceration of nasal tissue, insomnia, nervous tremors with numb extremities, chemical pneumonia, unconsciousness, and death.

Chronic:

Prolonged or repeated skin contact may cause dermatitis.

4. First Aid Measures

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately. Do NOT allow victim to rub or keep eyes closed. Extensive irrigation is required. (At least 30 minutes) <u>Skin:</u>

Get medical aid immediately. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion:

Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupful of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Call a poison control centre.

Inhalation:

Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. DO NOT use mouth-to-mouth respiration.

Notes to Physician:

Treat symptomatically and supportively.

5. Fire Fighting Measures

General Information:

As in any fire, wear a self- contained breathing apparatus in pressure-

demand, MSHA/NIOSH (approved or equivalent), and full

Protective gear. Oxidizer. Greatly increases the burning rate of combustible materials. Containers may explode in the heat of a fire. Some oxidizers may react explosively with hydrocarbons(fuel).

Extinguishing Media:

Do NOT get water inside containers. Cool containers with flooding quantities of water until well after fire is out. For small fires DO NOT use dry chemicals, carbon dioxide, halon or foams. USE WATER ONLY. For large fires flood fire with water from a distance.

Auto ignition Temperature: Not available.

Flash Point: Not available. NFPA Rating: Not published. Explosion Limits, Lower: N/A Upper: N/A

6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Flush spill area with water. Provide ventilation.

7. Handling and Storage

Handling:

Keep container tightly closed. Do not get on skin or in eyes. Do not ingest or inhale with adequate ventilation. Do not store near combustible materials. Discard contaminated shoes. <u>Storage:</u>

Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Corrosives area. Refrigerator (approx 4^aC). Do not get water inside containers.

8. Exposure Controls/Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

Chemical			OSHA - Final
Name	ACGIH	NIOSH	PELs
Hydrogen	1 ppm ; 1.4	1 ppm TWA; 1.4 mg/m3	1 ppm TWA; 1.4
peroxide	mg/m3	TWA; 75 ppm IDLH	mg/m3 TWA

OSHA Vacated PELs:

Hydrogen peroxide: 1 ppm TWA; 1.4 mg/m3 TWA

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. <u>Skin:</u> Wear appropriate protective gloves to prevent skin exposure. <u>Clothing:</u> Wear appropriate protective clothing to prevent skin exposure. <u>Respirators:</u> Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when

necessary.

Appearance:	Liquid	
Odor:	Odorless	
Solubility:	Miscible	
Density:	1.2000g/cm3	
pH:	Slightly acidic	
% Volatiles by volume @ 21C (70F):	Not available	
Boiling Point:	114 deg C	
Melting Point:	-50 deg C	
Vapor Density (Air=1):	Not available	
Vapor Pressure (mm Hg):	1 mbar @ 30 deg C	
Evaporation Rate (Butyl Acetate=1):	Not available	
Viscosity:	1.245cP	

9. Physical and Chemical Properties (Hydrogen Peroxide)

Molecular Formula: H2O2+Ag+ions

10. Stability and Reactivity

Chemical Stability: Decomposes slowly to release oxygen.

Conditions to Avoid: Incompatible materials, light, metals, excess heat, combustible

materials, reducing agents, alkaline materials, strong oxidants.

Incompatibilities with Other Materials: Acids, bases, brass, copper, bronze, chromium

trioxide, iron, lead, silver, zinc.

Hazardous Decomposition Products: Irritating and toxic fumes and gases, oxygen,

hydrogen gas.

Hazardous Polymerization: Has not been reported

11. Toxicological Information

RTECS#:

CAS# 7722-84-1: MX0899000 MX0900000 CAS# 7732-18-5: ZC0110000 LD50/LC50: CAS# 7722-84-1: Inhalation, rat: LC50 =2 gm/m3/4H; Oral, mouse: LD50 = 2 gm/kg; Skin, rat: LD50 = 4060 mg/kg. CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg. Carcinogenicity: Hydrogen peroxide -ACGIH: A3 - Animal Carcinogen IARC: Group 3 carcinogen Epidemiology: No information available. Teratogenicity: No information available. Reproductive Effects: No information available. Neurotoxicity: No information available. Mutagenicity: No information available. Other Studies: No data available.

12. Ecological Information

Ecotoxicity:

Not available. <u>Environmental Fat</u>e: Not available. <u>Physical/Chemical:</u> Not available. <u>Other:</u>

Not available.

13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

RCRA D-Series Maximum Concentration of Contaminants: None listed. RCRA D-Series Chronic Toxicity Reference Levels: None listed. RCRA F-Series: None listed. RCRA P-Series: None listed. RCRA U-Series: None listed.

14. Transport Information

DOT Classification: CLASS 5.1: Oxidizing material.

Identification: Hydrogen peroxide, aqueous solution UNNA: 2014 PG: II

Special Provisions for Transport: Not available

15. Other Regulatory Information

Federal and State Regulations:

New York acutely hazardous substances: Hydrogen Peroxide Rhode Island RTK hazardous substances: Hydrogen Peroxide Pennsylvania RTK: Hydrogen Peroxide Florida: Hydrogen Peroxide Minnesota: Hydrogen Peroxide Massachusetts RTK: Hydrogen Peroxide New Jersey: Hydrogen Peroxide TSCA 8(b) inventory: Hydrogen Peroxide SARA 302/304/311/312 extremely hazardous substances: Hydrogen Peroxide CERCLA: Hazardous substances.: Hydrogen Peroxide: 1 lbs. (0.4536 kg);

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard

(29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS C: Oxidizing material. CLASS E: Corrosive liquid. CLASS F: Dangerously reactive material.

DSCL (EEC):

HMIS (U.S.A.): Health Hazard: 3 Fire Hazard: 0 Reactivity: 1 Personal Protection: National Fire Protection Association (U.S.A.): Health: 2 Flammability: 0 Reactivity: 1 Specific hazard:

Protective Equipment:

Gloves. Full suit. Vapour respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Face shield.

16. Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall medizysis india pvt ltd will be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising.