

MATERIAL SAFETY DATA SHEET

MSDS

Clear Comfort Sanitizer

Date-Issued: 10/21/1998
MSDS Ref. No: AOOO22858
Date-Revised: 05/04/2005
Revision No: 3

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Clear Comfort Sanitizer
GENERAL USE: Swimming Pool Sanitizer
CHEMICAL FAMILY: Polymer

MANUFACTURER

Asepsis, Inc.
P.O. Box 1788
Suwanee, GA 30024-0973
Customer SERVICE: (800) 959-7946

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical) : (877) 800 - 5553
CHEMTREC (US Transportation) : (800) 424 - 9300

COMMENTS: EPA Registration Number: 1258-1263-10305

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt.%</u>
Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl), hydrochloride	32289-58-0	~ 20

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

PHYSICAL APPEARANCE: Blue liquid with perfume aroma.

IMMEDIATE CONCERNS: WARNING: Causes substantial but temporary eye injury. Harmful if swallowed. Do not get concentrate in eyes or on clothing. Avoid contact with skin. Avoid breathing vapor or mist. Wash thoroughly with soap and water after handling. Wear goggles or face shield when handling concentrate. Keep container closed. May cause allergic skin reactions.

POTENTIAL HEALTH EFFECTS

EYES: Causes severe eye irritation. Avoid contact with eyes.

SKIN: Harmful if absorbed through skin.

INGESTION: Harmful if swallowed.

INHALATION: Irritating to nose and throat. Avoid breathing vapors.

ROUTES OF ENTRY: Skin Contact, Inhalation, Ingestion, Eye Contact.

SENSITIZATION: Potential skin sensitizer.

HEALTH HAZARDS: Harmful (methemoglobin former), irritant (eye, skin, respiratory), and skin sensitizer.

4. FIRST AID MEASURES

EYES: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: If swallowed: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to

swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call poison control center or doctor for treatment advice.

NOTES TO PHYSICIAN: Since methemoglobin spontaneously reverts to hemoglobin after termination of exposure, a moderate degree of cyanosis need be treated only by supportive measures which include bed rest and oxygen inhalation. If cyanosis is severe, intravenous administration of 1% methylene blue, 1-2 mg/kg body weight over a 5-minute interval, may be of value. If cyanosis persists after 1 hour, repeat the treatment, but do not exceed 7 mg/kg total dose.

5. FIRE FIGHTING MEASURES

GENERAL HAZARD: There are no unusual fire and explosion hazards known.

EXTINGUISHING MEDIA: Appropriate to surrounding materials.

FIRE FIGHTING PROCEDURES: Firefighters should wear full protective clothing and self contained breathing apparatus (SCBA). Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

FLASHPOINT: Does not flash.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Utilizing appropriate clothing and safety equipment, contain spilled material. Cover the liquid with an inert absorbent. Using clean, dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry plastic containers for disposal. Dispose of according to local, municipal, state, provincial, and federal regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin or clothing. Avoid breathing vapors.

HANDLING: Do not mix with other chemicals.

STORAGE: Keep this product in original closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl), hydrochloride

<u>EXPOSURE LIMITS</u>					
<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>SUPPLIER OEL</u>	
<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>

ENGINEERING CONTROLS: General room ventilation plus local exhaust should be used to minimize exposure to vapors.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: Wear goggles or safety glasses with side shields when handling this product.

SKIN: Wear rubber gloves when handling this product. Avoid contact with skin.

RESPIRATORY: If needed, use MSHA-NIOSH approved respirator equipped with a high efficiency filter combined with cartridge approved for ammonia and methylamine.

WORK HYGIENIC PRACTICES: Remove and wash contaminated clothing before reuse.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Perfume aroma

COLOR: Blue

pH: ~ 7 to 8

VAPOR PRESSURE: Not Established

VAPOR DENSITY: Not Established

BOILING POINT: 99°C (210°F)

FREEZING POINT: Not Established

SOLUBILITY IN WATER: Miscible in Water

SPECIFIC GRAVITY: 1.04

VISCOSITY: ~ 40 to 100cps

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: High temperature. Poor ventilation. Contamination.

STABILITY: This product is stable under normal conditions.

POLYMERIZATION: Hazardous polymerization will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion products of dry material: carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, halogen, halogen acids, possible trace amounts of carbonyl halide.

INCOMPATIBLE MATERIALS: Copper, silver, sodium hydroxide, most metals.

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: This product is probably a severe eye irritant based on animal studies. Dilutions of 5% or less PHMB were nonirritating. Skin: This product is a moderate skin irritant based on animal studies. This product may induce skin sensitization in humans. Dilutions of 5% or less PHMB did not irritate rat skin. Oral: Toxicological information indicates this product may be irritating to the mouth, pharynx, esophagus and stomach. Inhalation: This product does not pose a vapor inhalation hazard, but repeated and/or prolonged aerosol exposures are potentially hazardous. Rats exposed to 0.25 mg/m³ as an aerosol for six hours per day, 5 days a week for three weeks developed methemoglobinemia, eye and respiratory irritation and pneumonitis. No adverse respiratory effects were observed at 0.025 mg/m³ in air. The effects were more severe at higher concentrations. If aerosol exposure is limited and good industrial hygiene is practiced, the potential hazard associated with aerosol exposure will not develop. The symptoms of methemoglobinemia include cyanosis (blue-tinged skin), euphoria, headache, flushed face, light-headedness, ataxia, weakness, rapid heart beat, labored breathing, nausea, vomiting and mental confusion. Hypertension, blindness, liver and kidney injury can result after extreme exposure.

SENSITIZATION: This product is a skin sensitizer.

CARCINOGENICITY:

This product is not listed as a carcinogen by IARC.

This product is not listed as a carcinogen by NTP.

This product is not listed as a carcinogen by OSHA.

COMMENTS: PHMB, the active ingredient in this product, when administered at very high doses, induced an increased incidence of cancer in mice. When this product is used according to label directions as a swimming pool sanitizer, PHMB in this product does not represent a practical risk to man.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Discarded product is not a hazardous waste under RCRA, however, this product is toxic to fish. Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Untreated effluent should not be discharged where it will drain into waterways. To deactivate product, adjust the pH to 6.8 - 7.0. Add a 5% solution of sodium hypochlorite (household bleach), 5 parts sodium hypochlorite to 1 part product. Let stand for 48 hours. Dilute deactivated solution with plenty of water and discharge to sewer serviced by a wastewater treatment facility.

EMPTY CONTAINER: Do not reuse container. Rinse thoroughly before discarding in trash.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS: This product or its components are not listed.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: This product or its components are not listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product or its components are not subject to export notification.

TSCA STATUS: This product or its components are listed on the TSCA Inventory.

OSHA HAZARD COMM. RULE: Product is hazardous by definition of the Hazardous Communication Standard.

CLEAN WATER ACT: Not Listed.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This product is a registered pesticide.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): All ingredients are on the DSL (Domestic Substances List). WHMIS Classifications: Class D, Division 2B, Toxic.

16. OTHER INFORMATION

PREPARED BY: Regulatory Affairs Department

REVISION SUMMARY Revision #: 3 This MSDS replaces the May 09, 2001 MSDS. Any changes in information are as follows: In Section 1 Prepared By [] Chemtec MSDS Comments 24 Hour Emergency Phone Numbers

HMIS RATING

HEALTH:		2
FLAMMABILITY:		0
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		B

NFPA RATING

HEALTH:		2
FIRE:		0
REACTIVITY:		0
SPECIAL:		B

Key

- 4 = Severe
- 3 = Serious
- 2 = Moderate
- 1 = Slight
- 0 = Minimal

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intended or shall be construed as a recommendation to infringe any existing patents or violate any Federal, State or local laws. Safe handling and use is the responsibility of the customer. Read the label before using this product. This information is true and accurate to the best of our knowledge.