

# MATERIAL SAFETY DATA SHEET

## MSDS

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Date-Issued: 10/21/1998  
MSDS Ref. No: AOOO22858  
Date-Revised: 11/08/1999  
Revision No: 1

### Clear Comfort Sanitizer

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#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Clear Comfort Sanitizer  
GENERAL USE: Swimming pool sanitizer.  
CHEMICAL FAMILY: Polymer

##### MANUFACTURER

Asepsis, Inc.  
P.O. Box 537  
Avondale Estates, GA 30002  
Customer SERVICE: (800) 959-7946

##### 24 HR. EMERGENCY TELEPHONE NUMBERS

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

##### COMMENTS:

EPA Registration Number: 72674-19-10305

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#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Poly (hexamethylene biguanide hydrochloride)	~20	27083-27-8	

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#### 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:  
Blue liquid with perfume aroma.

##### IMMEDIATE CONCERNS:

WARNING: Causes skin and eye irritation. May be harmful if swallowed. Avoid contact with eyes, skin, or clothing. Wear goggles and rubber gloves when handling this product. Avoid breathing vapors. Remove and wash contaminated clothing before use. This product is a skin sensitizer.

##### POTENTIAL HEALTH EFFECTS

###### EYES:

WARNING: Causes eye irritation. Avoid contact with eyes.

###### SKIN:

WARNING: Causes skin irritation. Avoid contact with skin.

###### INGESTION:

Harmful if swallowed.

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#### INHALATION:

Irritating to nose and throat. Avoid breathing vapors.

#### ROUTES OF ENTRY:

Skin Contact, Inhalation, Ingestion, Eye Contact.

#### HEALTH HAZARDS:

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

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## 4. FIRST AID MEASURES

#### EYES:

If contact with eyes occurs: Immediately flush with cold water for at least 15 minutes. Then get immediate medical attention.

#### SKIN:

Wash off excess chemical with soap and water and flush skin with cold water for at least 15 minutes. If irritation persists, get medical attention.

#### INGESTION:

If swallowed: Drink large amounts of water. Do not induce vomiting. Avoid alcohol. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician or poison control center immediately.

#### INHALATION:

If inhaled: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If not breathing, give artificial respiration. Call a physician immediately.

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## 5. FIRE FIGHTING MEASURES

#### GENERAL HAZARD:

There are no unusual fire and explosion hazards known.

#### EXTINGUISHING MEDIA:

Water Fog

#### 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.

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#### 6. ACCIDENTAL RELEASE MEASURES

##### GENERAL PROCEDURES:

STEP TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Utilizing appropriate clothing and safety equipment, contain spill 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, state and federal regulations.

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#### 7. HANDLING AND STORAGE

##### HANDLING:

Mix only with water. Never add water to product. Always add product to large quantities of water. Do not mix with other chemicals. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with other chemicals may start a chemical reaction generating heat, hazardous gases, fire, and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood area with large volumes of water, if necessary.

##### 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.

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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### EXPOSURE GUIDELINES:

##### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

	OSHA PEL ppm	mg/m <sup>3</sup>	EXPOSURE LIMITS		SUPPLIER OEL	
			ACGIH TLV ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Poly (hexamethylene biguanide hydrochloride)						
				[1]		

##### OSHA TABLE COMMENTS:

1. Not Established

##### ENGINEERING CONTROLS:

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

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#### 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Perfume aroma

COLOR: Blue

pH: ~7 to 8

BOILING POINT: 98.9°C (210°F)

SOLUBILITY IN WATER: Miscible in Water

SPECIFIC GRAVITY: 1.04

VISCOSITY: ~40 to 100cps

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## 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.

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#### INCOMPATIBLE MATERIALS:

Copper, silver, sodium hydroxide, most metals.

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## 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**EYES:** Toxicological information indicates this product may be irritating to eyes.

**DERMAL LD<sub>50</sub>:** Toxicological information indicates this product may be irritating to skin.

**ORAL LD<sub>50</sub>:** Toxicological information indicates this product may be irritating to the mouth, pharynx, esophagus and stomach.

**INHALATION LC<sub>50</sub>:** 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/cubic meter 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/cubic meter 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.

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## 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.

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#### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:**

Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire.

**EMPTY CONTAINER:**

Do not reuse container. Rinse thoroughly before discarding in trash.

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#### 14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated.

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#### 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.

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#### 16. OTHER INFORMATION

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#### REVISION SUMMARY

Revision #: 1

This MSDS replaces the October 21, 1998 MSDS. Any changes in information are as follows:

In Section 1

Section 1 Footnotes

In Section 1

Section 1 Footnotes

#### NFPA CODES

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

#### HMIS CODES

HEALTH: 2    FIRE: 0    REACTIVITY: 0    PROTECTION: B

#### MANUFACTURER DISCLAIMER:

IMPORTANT: This information is given without a warranty or guarantee. No suggestions for use are 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.

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