

**MATERIAL SAFETY DATA SHEET**

MSDS

**Sun Pool Minus**

**Date-Issued:** 04/03/2002  
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**1. PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** Sun Pool Minus**GENERAL USE:** pH Decreaser.**MANUFACTURER**

Asepsis, Inc., A Chemtura Company

Sun

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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Chemical Name</u>	<u>CAS</u>	<u>Wt. %</u>
Sodium bisulfate	7681-38-1	93.2
Sodium sulfate	7757-82-6	6.5

**3. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW****PHYSICAL APPEARANCE:** Off-white, bead-like, granular material.**IMMEDIATE CONCERNS: DANGER:** Causes severe burns. Avoid contact with eyes, skin or clothing. Wear goggles or safety glasses and rubber gloves when handling this product. May be irritating to nose and throat. Avoid breathing dust. Do not ingest. Do not mix with other chemicals.**POTENTIAL HEALTH EFFECTS****EYES:** Causes eye burns. Do not get in eyes.**SKIN:** Causes skin burns. Avoid contact with skin.**INGESTION:** Harmful if swallowed.**INHALATION:** May be irritating to nose and throat. Avoid breathing dust or vapors.**CHRONIC:** There are no known chronic hazards.**ROUTES OF ENTRY:** Skin Contact, Inhalation, Ingestion, Eye Contact.**4. FIRST AID MEASURES****EYES:** If in eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.**SKIN:** If on skin: Flush with plenty of water. Get medical attention if irritation persists.**INGESTION:** If ingested: Do not induce vomiting. Drink several glasses of water and get immediate medical attention.**INHALATION:** If Inhaled: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.**NOTES TO PHYSICIAN:** Eyes: Natural watering of eyes will dissolve sodium bisulfate, forming a weak sulfuric acid solution which may

cause burns. Flush affected area thoroughly with water. Do not use chemical antidotes or neutralizing solutions. Skin: Mild burns may occur if not thoroughly flushed previously. Inhalation: Mild burning sensations may occur to mucous membranes and upper respiratory tract. Ingestion: Body water content will react with sodium bisulfate to form a weak sulfuric acid solution, which may burn tissues in mouth, esophagus or stomach. Solution should be diluted to reduce burning effect.

## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** Not Applicable

**GENERAL HAZARD:** Product readily dissolves in water to form a weak sulfuric acid solution. No gases or toxic fumes are emitted from this reaction, but precautions for exposure to sulfuric acid should be followed.

**EXTINGUISHING MEDIA:** Water or dry chemical as appropriate for combustibles in area. Avoid water contact to material if possible as contact with water forms sulfuric acid solution.

**FIRE FIGHTING EQUIPMENT:** 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.

**HAZARDOUS DECOMPOSITION PRODUCTS:** At temperatures over 570 F, product will decompose, generating oxides of sulfur.

## 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Utilizing appropriate protective clothing and safety equipment, contain spilled material. Keep spill out of sewers and open bodies of water. Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place in clean dry plastic containers for disposal. Dispose of according to local, state, and federal regulations.

## 7. HANDLING AND STORAGE

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

**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.

**STORAGE:** Keep this product dry in original tightly closed container until use. Store in a cool, dry, well-ventilated area. Do not reuse container. Rinse empty container thoroughly before discarding in trash. Keep this product and all other chemicals out of children's reach.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

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

		<u>EXPOSURE LIMITS</u>					
		<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>SUPPLIER OEL</u>	
		<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>
Sodium bisulfate	TWA	N/E [1]		N/E			
Sodium sulfate	TWA	N/E		N/E			

#### OSHA TABLE COMMENTS:

1. N/E = Not Established

**ENGINEERING CONTROLS:** General room ventilation plus local exhaust should be used to minimize exposure to dust/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:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever

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workplace conditions warrant a respirator's use.

**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:** Solid

**ODOR:** Sulfate

**APPEARANCE:** Granules

**COLOR:** Off-white

**pH:** Not Available

**PERCENT VOLATILE:** Non-volatile

**VAPOR PRESSURE:** Not Established

**VAPOR DENSITY:** Not Established

**BOILING POINT:** Not Applicable

**FREEZING POINT:** Not Established

**MELTING POINT:** 176.67°C (350°F)

**SOLUBILITY IN WATER:** 100%

**EVAPORATION RATE:** Not Applicable

**DENSITY:** 83 lb/cu ft

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## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** High temperature. Poor ventilation. Contamination. Moisture/high humidity.

**STABILITY:** This product is stable under normal conditions.

**POLYMERIZATION:** Hazardous polymerization will not occur under normal conditions.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Sulfur oxide gases (toxic, oxidizers & corrosive). Sulfur trioxide is a fire hazard.

**INCOMPATIBLE MATERIALS:** Other swimming pool/spa chemicals in their concentrated forms. Strong alkaline materials. Reacts with water to form weak sulfuric acid solution. Do not mix with liquid chlorine bleach, ammonia cleansers or similar products.

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**ORAL LD<sub>50</sub>:** 2800 mg/kg of body weight in rats

**EYE EFFECTS:** Mild to severe irritant. May cause burns if not flushed with water.

**SKIN EFFECTS:** Moderate irritant. May cause burns if not flushed with water.

**SENSITIZATION:** This product is not expected to be a skin sensitizer, based on main components.

### 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.

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## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** This product may be toxic to fish and aquatic organisms. Keep product from entering waterways and watersheds.

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## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact



Key

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

**COMMENTS:** The contents and format of this MSDS are in accordance with OSHA Hazard Communication Standard, National Fire Protection Association (NFPA), and Hazardous Materials Identification System (HMIS).

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