

**MATERIAL SAFETY DATA SHEET**

MSDS



**Date Issued:** 11/06/2006  
**MSDS No:** ASUN23600  
**Revision No:** New MSDS

**Sun Pool Surface Cleaner****1. PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** Sun Pool Surface Cleaner**GENERAL USE:** Removes scale and grime from pool & spa walls.**MANUFACTURER**

Asepsis, Inc., A Chemtura Company  
 Sun  
 P.O. Box 1788  
 Suwanee GA 30024-0973  
**Product Stewardship:** (877)800-5553  
**Customer Care Number:** (800)959-7946

**24 HR. EMERGENCY TELEPHONE NUMBERS**

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

**2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW****PHYSICAL APPEARANCE:** Viscous orange liquid with acid/amine odor.

**IMMEDIATE CONCERNS: WARNING:** Irritant to eyes and mucous membranes. Harmful if swallowed. Do not taste or swallow. Do not get in eyes, on skin or on clothing. Wear safety glasses and rubber gloves when handling this product. May be irritating to nose and throat. Avoid breathing vapors. Wash thoroughly after handling. If product gets on clothing, remove and wash before reuse. Do not mix with chlorine-type bleaches or other household chemicals. Keep out of reach of children.

**POTENTIAL HEALTH EFFECTS****EYES:** Causes severe eye irritation. Avoid contact with eyes.**SKIN:** Causes skin irritation. Avoid contact with skin.**INGESTION:** Harmful if swallowed.**INHALATION:** May be irritating to nose and throat. Avoid breathing vapors.**SIGNS AND SYMPTOMS OF OVEREXPOSURE****CHRONIC EFFECTS:** There are no known chronic hazards.**ROUTES OF ENTRY:** Skin Contact, Inhalation, Ingestion, Eye Contact.**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS
Hydrochloric acid	8 - 10	7647-01-0
Ethoxylated amine	8 - 10	

**COMMENTS:** Ingredients listed in this section have been determined to be hazardous as defined in 29 CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% or more of the composition. Information on proprietary materials is available as provided in 29 CFR 1910.1200.

**4. FIRST AID MEASURES**

**EYES:** If contact with eye occurs: Immediately flush with plenty of water for at least 15 minutes. Then get immediate medical attention.

**SKIN:** If on skin: Flush with plenty of water for at least 15 minutes. If irritation develops, get medical attention.

**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 breathing is difficult or discomfort occurs and persists, Contact a medical doctor.

## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** None

**GENERAL HAZARD:** Although not flammable, a latent fire or explosion hazard exists when product is in contact with certain metals, due to the formation of flammable hydrogen gas.

**EXTINGUISHING MEDIA:** Appropriate to surrounding materials.

**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.

## 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:** Mix only with water. Do not mix with other chemicals.

**STORAGE:** Keep this product in its original container when not in use. Store in cool, dry, well-ventilated area. Keep this product and all other chemicals out of children's reach.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Hydrochloric acid	TWA	5 ppm <sup>[1]</sup>	<sup>[1]</sup>	5 ppm <sup>[1]</sup>	<sup>[1]</sup>
<b>OSHA TABLE COMMENTS:</b>					
1. Ceiling					

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

### PERSONAL PROTECTIVE EQUIPMENT

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

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

**RESPIRATORY:** Use in area with adequate ventilation.

**WORK HYGIENIC PRACTICES:** If product gets on clothing, remove and wash 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

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**PHYSICAL STATE:** Liquid

**ODOR:** Acidic/amine odor

**APPEARANCE:** Viscous liquid

**COLOR:** Orange

**pH:** < 1.0

**VAPOR PRESSURE:** < 2 mmHg

**VAPOR DENSITY:** Not Established

**BOILING POINT:** > 101.7°C (215°F)

**FREEZING POINT:** < -40°C (-40°F)

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE:** > 1 (n-Butyl Acetate=1)

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## 10. STABILITY AND REACTIVITY

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

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

**CONDITIONS TO AVOID:** High temperature. Poor ventilation. Contamination. Metals or metallic surfaces.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Flammable hydrogen gas may be released on contact with certain metals.

**INCOMPATIBLE MATERIALS:** Reacts with other household chemicals such as toilet bowl cleaners, bleach, rust removers, vinegar, acids or ammonia containing products to produce hazardous gases, such as chlorine and other chlorinated species. Reacts with certain metals or metallic surfaces.

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## 11. TOXICOLOGICAL INFORMATION

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### ACUTE

**ORAL LD<sub>50</sub>:** 900 mg/kg of body weight in rabbits

**Notes:** Toxicological information given is for the active ingredient.

**INHALATION LC<sub>50</sub>:** 3124 ppm (rats) (one hour exposure)

**Notes:** Toxicological information given is for the active ingredient.

**EYE EFFECTS:** This product is expected to be moderately to severely irritating to eyes.

**SKIN EFFECTS:** This product is expected to be moderately to severely irritating to the skin.

### CARCINOGENICITY

**IARC:** This product is not listed as a carcinogen by IARC.

**NTP:** This product is not listed as a carcinogen by NTP.

**OSHA:** This product is not listed as a carcinogen by OSHA.

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## 12. ECOLOGICAL INFORMATION

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

**13. DISPOSAL CONSIDERATIONS**

**EMPTY CONTAINER:** Do not reuse empty container.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Corrosive Liquid, N.O.S. (Contains hydrochloric acid and ethoxylated aliphatic amines)

**PRIMARY HAZARD CLASS/DIVISION:** 8 (Corrosive)

**UN/NA NUMBER:** UN1760

**PACKING GROUP:** II

**OTHER SHIPPING INFORMATION:** Limited Quantity or ORM-D Consumer Commodity exemption if applicable.

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

**313 REPORTABLE INGREDIENTS:** Hydrochloric acid is a SARA Title III Section 313 Toxic Chemical.

**EPCRA SECTION 313 SUPPLIER NOTIFICATION**

Chemical Name	Wt.%	CAS	Comments
Hydrochloric acid	8 - 10	7647-01-0	

**TITLE III NOTES:** Hydrochloric acid is listed as a SARA Title III Section 302 Extremely Hazardous Substance, with a TPQ of 500 lbs, and an RQ of 5,000 lbs.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

**CERCLA REGULATORY:** Hydrochloric acid (muriatic acid) (CAS # 7647-01-0), a component of this product, has a CERCLA RQ of 5000 lbs.

**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.

**CLEAN AIR ACT**

Chemical Name	Wt.%	CAS
Hydrochloric acid	8 - 10	7647-01-0

**RCRA STATUS:** This product when discarded is a hazardous waste as that term is defined by 40 CFR 261. US EPA RCRA hazardous waste number: D002

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

**FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):** This product is not a registered pesticide.

**16. OTHER INFORMATION**

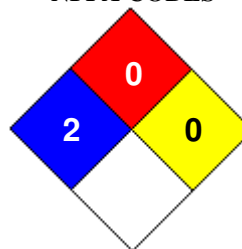
**PREPARED BY:** Regulatory Department

**REVISION SUMMARY:** New MSDS

## HMIS RATING

HEALTH:	1	2
FLAMMABILITY:	0	0
PHYSICAL HAZARD:	0	0
PERSONAL PROTECTION:	<b>B</b>	

## NFPA CODES



**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).

**MANUFACTURER DISCLAIMER: IMPORTANT:** The 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, provincial, state, municipal, 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.