

MATERIAL SAFETY DATA SHEET

MSDS

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Date-Issued: 11/04/1998

MSDS Ref. No: AOOO22840

Date-Revised: 03/02/2000

Revision No: 2

Spa Essentials Spa Shock

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Spa Essentials Spa Shock
GENERAL USE: Non-Chlorine Shock
CHEMICAL FAMILY: Peroxygen Salt

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt.%</u>
Potassium Peroxymonosulfate	10058-23-8	43
Potassium Bisulfate	7646-93-7	23
Potassium Sulfate	7778-80-5	29
Potassium Peroxydisulfate	7727-21-1	3
Magnesium Carbonate	546-93-0	2

COMMENTS:

Note: CAS # for mixture is 70693-62-8

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

White, granular material

IMMEDIATE CONCERNS:

DANGER. CORROSIVE. Causes skin and eye damage. Wear goggles or face shield and rubber gloves when handling. May be fatal if swallowed. Irritating to nose and throat. Avoid inhalation of dust. Remove and wash contaminated clothing before reuse.

POTENTIAL HEALTH EFFECTS

EYES:

DANGER: Corrosive. Causes eye damage. Do not get in eyes.

SKIN:

DANGER: Corrosive. Causes skin damage. May cause allergic skin reactions in sensitive individuals. Do not get on skin.

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INGESTION:

May cause inflammation and damage to the lining of the stomach, resulting in bleeding and possibly death.

INHALATION:

Irritating to nose and throat. May cause nosebleeds and irritation of upper respiratory passages, with coughing and discomfort. Avoid breathing dust or vapors.

CHRONIC:

There are no known chronic hazards.

ROUTES OF ENTRY:

Skin Contact, Inhalation, Ingestion, Eye Contact.

COMMENTS:

Individuals with preexisting diseases of the skin or gastrointestinal tract may have increased susceptibility to the toxicity of excessive exposures.

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:

If contact with skin: Rinse off excess chemical and flush skin with cold water for at least 15 minutes. If skin irritation develops, seek immediate medical attention.

INGESTION:

If swallowed: Do not induce vomiting. Drink 1 - 2 glasses of water to dilute the stomach contents. Never give anything by mouth to an unconscious person. Call a physician 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.

5. FIRE FIGHTING MEASURES

GENERAL HAZARD:

This product is not flammable or combustible.

EXTINGUISHING MEDIA:

Water

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HAZARDOUS COMBUSTION PRODUCTS:

Will release oxygen when heated, intensifying a fire. Acidic mist may be present.

FIRE FIGHTING PROCEDURES:

Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential.

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. 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

HANDLING:

STRONG OXIDIZING AGENT: Do not mix with other chemicals. Mix only with water. Never add water to product. Always add product to large quantities of water. 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 moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible 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.

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 add any other product to container. Never return unused product to container; dispose of product in accordance with local, state, or federal regulations.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		EXPOSURE LIMITS					
		OSHA PEL ppm	mg/m ³	ACGIH TLV ppm	mg/m ³	SUPPLIER OEL ppm	mg/m ³
Potassium Peroxymonosulfate	TWA	[1]				[2]	
Potassium Bisulfate	TWA	N/E ^[3]		N/E			
Potassium Sulfate	TWA	N/E ^[4]		N/E			
Potassium Peroxydisulfate	TWA			[5]			
Magnesium Carbonate	TWA	[6]		[7]			

OSHA TABLE COMMENTS:

1. 15 mg/m³, 8 hr, total dust
2. 1 mg/m³, 8hr
3. N/E = None Established
4. N/E = Not Established
5. 0.1 mg/m³, 8 hr
6. 15 mg/m³, 8 hr., total dust
7. 10 mg/m³, 8 hr., total dust

ENGINEERING CONTROLS:

General room ventilation plus local exhaust should be used to maintain exposure below TLV.

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 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: Odorless
APPEARANCE: Granular, free-flowing solid
COLOR: White
pH: 2.3(1% solution)
VAPOR PRESSURE: Nil
VAPOR DENSITY: Not volatile
BOILING POINT: Not Determined
FREEZING POINT: Not Determined
MELTING POINT: Not Determined
SOLUBILITY IN WATER: 25.6 g / 100 g water @ 20 C
SPECIFIC GRAVITY: 1.1 to 1.4

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:

Oxygen gas can be produced.

INCOMPATIBLE MATERIALS:

Do not mix with other swimming pool/spa chemicals in their concentrated forms. Mixing with compounds containing halides or active halogens can cause release of the respective halogen if moisture is present. Mixing with cyanides can cause release of hydrogen cyanide gas. Mixing with heavy metal salts such as those of cobalt, nickel, copper, or manganese can cause decomposition with release of oxygen and heat.

11. TOXICOLOGICAL INFORMATION

ACUTE

SKIN ABSORPTION: >11,000 mg/kg in rabbits

ORAL LD₅₀: 2,000 mg/kg (rat)

INHALATION LC₅₀: >5 mg/l (rats) (4-hour)

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EYE EFFECTS:

This product is corrosive to eyes.

SKIN EFFECTS:

This product is corrosive to skin.

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.

GENERAL COMMENTS:

Single inhalation exposures produced nonspecific effects such as weight loss and irritation. Repeated inhalation exposures produced eye irritation and reversible corneal damage. By ingestion, the administration of large single doses produced nonspecific effects such as weight loss and irritation as well as gastric ulceration, necrosis, and hemorrhage. The compound does not produce genetic damage in bacterial cell cultures.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

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

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Do not put product, spilled product, or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction or fire. Comply with federal, state, and local regulations. Solutions greater than 3% by weight have a pH <2.0 and may be a RCRA hazardous waste upon disposal due to the acidic pH characteristic of the solution. If approved, flush to sewer or waste treatment plant. Large quantities should be neutralized with soda ash.

EMPTY CONTAINER:

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

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Solid, Acidic, Inorganic, N.O.S. (Monopersulfate Compound)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 3260

PACKING GROUP: II

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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.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):

This product is not a registered pesticide.

CANADA

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM):

D2B

16. OTHER INFORMATION

REVISION SUMMARY

Revision #: 2

This MSDS replaces the November 24, 1999 MSDS. Any changes in information are as follows:
In Section 2

Emergency Overview - Immediate Concerns (text) Potential Health Effects - Skin (text) Potential Health Effects - Inhalation (text) Potential Health Effects - Ingestion (text) Section 3 Footnotes

In Section 8

Appearance (text) (Group Field) for Boiling Point (Group Field) for Freezing Point (Group Field) for Melting Point

NFPA CODES

HEALTH: 3 FIRE: 0 REACTIVITY: 1

HMIS CODES

HEALTH: 3 FIRE: 0 REACTIVITY: 1 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.
