

# MATERIAL SAFETY DATA SHEET

## MSDS

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Date-Issued: 09/12/1997  
MSDS Ref. No: AHYD23305  
Date-Revised: 08/15/2000  
Revision No: 1

### Hydrotech pHD for Spas & Hot Tubs

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hydrotech pHD for Spas & Hot Tubs  
GENERAL USE: pH Decreaser.

##### MANUFACTURER

Asepsis, Inc.  
Hydrotech  
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

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#### 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

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#### 3. HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

###### PHYSICAL APPEARANCE:

Off-white, bead-like, granular material.

###### IMMEDIATE CONCERNS:

DANGER: POISON - Causes severe burns. Corrosive. Causes skin and eye damage. Harmful if swallowed. 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. Remove and wash contaminated clothing before reuse. Do not mix with any other chemicals.

##### POTENTIAL HEALTH EFFECTS

###### EYES:

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

###### SKIN:

DANGER: Corrosive: Causes skin burns. Do not get on skin.

###### INGESTION:

Harmful if swallowed.

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#### 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.

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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:

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: 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.

#### 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.

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## 5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Applicable

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#### 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.

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## 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.

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## 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 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.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

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

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BOILING POINT: Not Applicable  
MELTING POINT: (350°F )  
SOLUBILITY IN WATER: 100%  
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.

**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 with incompatible materials could cause a reaction or fire.

##### PRODUCT DISPOSAL:

Disposal of unused, uncontaminated product is regulated according to local, state and federal regulations.

##### 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.

OTHER SHIPPING INFORMATION: Bill of Lading Description - Compounds, Swimming Pool, Cleaning or Water Treating, Dry or Liquid (NMFC 50086)

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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.

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

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## 16. OTHER INFORMATION

### REVISION SUMMARY

Revision #: 1

This MSDS replaces the September 12, 1997 MSDS. Any changes in information are as follows:

### NFPA CODES

HEALTH: 1    FIRE: 0    REACTIVITY: 1

### HMIS CODES

HEALTH: 1    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.

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