

MATERIAL SAFETY DATA SHEET

MSDS

Hydrotech UpH

Date-Issued:09/12/1997
MSDS Ref. No:AHYD23356
Date-Revised:03/17/2003
Revision No:2

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hydrotech UpH
GENERAL USE: pH Increaser
CHEMICAL FAMILY: Alkali salt

MANUFACTURER

Asepsis, Inc.
Hydrotech
P.O. Box 1788
Suwanee, GA 30024-0973
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>
Sodium carbonate	497-19-8	100

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

PHYSICAL APPEARANCE: White, granular material

IMMEDIATE CONCERNS: CAUTION: Causes eye and skin irritation. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wear goggles or safety glasses and rubber gloves when handling this product. May be irritating to nose and throat. Avoid breathing dust. If product gets on clothing, remove and wash before reuse. Do not mix with other chemicals.

POTENTIAL HEALTH EFFECTS

EYES: Causes 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 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: Hold eye(s) open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice.

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: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION: If inhaled: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If not breathing, give artificial

respiration. Call a poison control center or doctor for treatment advise.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Non-Flammable

GENERAL HAZARD: There are no unusual fire and explosion hazards known.

EXTINGUISHING MEDIA: This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

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 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

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 when not in use. Store in a cool, dry, well ventilated area. Do not reuse container, but place in trash collection.

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/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
Sodium carbonate						
	TWA	N/E ^[1]			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.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid
ODOR: Odorless
APPEARANCE: Granules
COLOR: White
pH: 11.6(1% solution)
VAPOR PRESSURE: Not Established
VAPOR DENSITY: Not Established
BOILING POINT: Not Applicable
MELTING POINT: 851°C (1564°F)
THERMAL DECOMPOSITION: 400°C
SOLUBILITY IN WATER: 33g/100g water
DENSITY: 62.0 lb/cu ft
SPECIFIC GRAVITY: 2.533 (water=1) at 25°C

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: Carbon dioxide is evolved at very high temperatures (1000C, 1832F) or when mixed with acids.

INCOMPATIBLE MATERIALS: Avoid contact with water on concentrated material in the container. Avoid strong acids and all other swimming pool/spa chemicals in their concentrated forms.

11. TOXICOLOGICAL INFORMATION

ACUTE

ORAL LD₅₀: 4090 mg/kg of body weight in rats

INHALATION LC₅₀: 2300 mg/m³ in rats

EYE EFFECTS: This product is an eye irritant.

SKIN EFFECTS: This product is a skin irritant.

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.

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

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.

14. TRANSPORT INFORMATION**DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** Sodium carbonate**PRIMARY HAZARD CLASS/DIVISION:** Not listed**UN/NA NUMBER:** Not Listed**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:****FIRE:** NO **PRESSURE GENERATING:** NO **REACTIVITY:** NO **ACUTE:** YES **CHRONIC:** NO**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.**RCRA STATUS:** This product, as sold, would not be considered a RCRA Hazardous Waste.**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****REVISION SUMMARY** Revision #: 2

This MSDS replaces the August 15, 2000 MSDS. Any changes in information are as follows:

In Section 3

Emergency Overview - Immediate Concerns Potential Health Effects - Eyes Potential Health Effects - Skin

In Section 4

Firstaid - Eyes Firstaid - Ingestion Firstaid - Inhalation

In Section 7

Storage

In Section 15

Fire Pressure Generating Reactivity Accute Chronic

HMIS RATING

HEALTH:		1
FLAMMABILITY:		0
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		B

NFPA RATING

HEALTH:	1
FIRE:	0
REACTIVITY:	0

Key

4 = Severe

3 = Serious

2 = Moderate

1 = Slight

0 = Minimal

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