

# MATERIAL SAFETY DATA SHEET

MSDS

## Hydrotech AquaBrome Algicide

**Date-Issued:** 09/12/1997  
**MSDS Ref. No:** AHYD23062  
**Date-Revised:** 02/22/2005  
**Revision No:** 2

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Hydrotech AquaBrome Algicide  
**GENERAL USE:** Swimming pool algaecide.  
**CHEMICAL FAMILY:** Polymer

#### MANUFACTURER

Asepsis, Inc.  
Hydrotech  
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

**COMMENTS:** EPA Registration Number: 5185-339-10305

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt.%</u>
Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]	31075-24-8	60

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### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Clear, pale yellow liquid with a mild odor.

**IMMEDIATE CONCERNS:** CAUTION: Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Wear goggles or safety glasses and rubber gloves when handling this product. Wash thoroughly with soap and water after handling.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Slightly hazardous in case of eye contact (irritant).

**SKIN:** Slightly hazardous in case of skin contact (irritant).

**INGESTION:** Harmful if swallowed.

**INHALATION:** Slightly hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure.

**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 in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**SKIN:** If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**INGESTION:** If swallowed: Call 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 do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**INHALATION:** If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call poison control center or doctor for treatment advice.

## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** Not Applicable

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

**EXTINGUISHING MEDIA:** Dry chemical, water, foam or carbon dioxide. Water should be used to cool surrounding containers.

**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 original closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. Do not contaminate water, food or feed by storage or disposal or cleaning of equipment.

## 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>
Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]	TWA	N/E <sup>[1]</sup>		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 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:** Liquid

**ODOR:** Mild

**APPEARANCE:** Clear  
**COLOR:** Pale yellow  
**pH:** 6 to 7  
**VAPOR PRESSURE:** Not Established  
**VAPOR DENSITY:** Not Established  
**BOILING POINT:** > 100°C (212°F)  
**FREEZING POINT:** < 0°C (32°F)  
**SOLUBILITY IN WATER:** Soluble  
**SPECIFIC GRAVITY:** 1.15 g/cm<sup>3</sup>

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## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** High temperature. Poor ventilation. Contamination.

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

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

**INCOMPATIBLE MATERIALS:** Other swimming pool/spa chemicals in their concentrated forms. Anionic polymers.

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** > 2000 mg/kg of body weight in rabbits.

**ORAL LD<sub>50</sub>:** Male: 1951 mg/kg, Female 2587 mg/kg

**INHALATION LC<sub>50</sub>:** 2.9 mg/l

**EYE EFFECTS:** Slightly hazardous in case of eye contact (irritant).

**SKIN EFFECTS:** Slightly hazardous in case of skin contact (irritant).

**SENSITIZATION:** This product is not a skin sensitizer.

### 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.

**MUTAGENICITY:** Mutagenicity studies were negative.

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## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. 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.

**EMPTY CONTAINER:** Do not reuse container, but place in trash collection. Rinse thoroughly before discarding in trash.

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**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)****PROPER SHIPPING NAME:** Not Regulated as a DOT Hazardous Material**OTHER SHIPPING INFORMATION:** Bill of Lading Description - Disinfectants or Deodorants, NOI, in bulk, barrels, boxes, kits, pails or package (NMFC 57100, SUB 3).**AIR (ICAO/IATA)****IATA NOTE:** Not recommended for transport by air.**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 a US EPA registered pesticide.**FDA (FOOD AND DRUG ADMINISTRATION):** Not listed.**16. OTHER INFORMATION****PREPARED BY:** Regulatory Affairs Department

**REVISION SUMMARY** Revision #: 2 This MSDS replaces the May 04, 2000 MSDS. Any changes in information are as follows: In Section 1 Prepared By [ ] Print CHEMTREC Phone Number 24 Hour Emergency Phone Numbers In Section 2 Emergency Overview - Immediate Concerns Potential Health Effects - Eyes Potential Health Effects - Skin Potential Health Effects - Inhalation In Section 4 Firstaid - Eyes Firstaid - Skin Firstaid - Ingestion Firstaid - Inhalation In Section 7 Handling In Section 11 Eye Effects Skin Effects In Section 13 Empty Container In Section 14 DOT Proper Shipping Name IATA Note In Section 15 Fire Pressure Generating Reactivity Accute Chronic FIFRA In Section 16 HMIS Flammability HMIS Reactivity NFPA Flammability NFPA Reactivity Manufacturer Disclaimer Comments

**HMIS RATING**

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

**NFPA RATING**

<b>HEALTH:</b>	1
<b>FIRE:</b>	0
<b>REACTIVITY:</b>	0

**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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