

MATERIAL SAFETY DATA SHEET

MSDS

Page: 1 of 6
Date-Issued: 12/03/1997
MSDS Ref. No: AHYD23717
Date-Revised: 12/16/1997
Revision No: 1

Hydrotech Liquid Flocc Plus

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hydrotech Liquid Flocc Plus
GENERAL USE: Water clarifier
CHEMICAL FAMILY: Mixture

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Chemical Name</u> | <u>CAS#</u> | <u>Wt.%</u> |
|--------------------------------------|-------------|-------------|
| Cationic polymer blend (Proprietary) | | ~29 |

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% of more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% of more of the composition. Information on proprietary materials is available as provided in 29 CFR 1910.1200.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:
Purple liquid

IMMEDIATE CONCERNS:

CAUTION: Irritant. Causes eye irritation. 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 vapors. If product gets on clothing, remove and wash before reuse. Do not mix with other chemicals.

POTENTIAL HEALTH EFFECTS

EYES:
CAUTION: Causes eye irritation. Avoid contact with eyes.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 2 of 6
Date-Issued: 12/03/1997
MSDS Ref. No: AHYD23717
Date-Revised: 12/16/1997
Revision No: 1

Hydrotech Liquid Flocc Plus

SKIN:

The product is not expected to cause skin irritation upon contact or to be hazardous through dermal absorption. No cases of skin sensitization have been reported.

INGESTION:

Harmful if swallowed.

INHALATION:

May be irritating to nose and throat. Avoid breathing vapors.

CHRONIC:

There are no known chronic hazards.

ROUTES OF ENTRY:

Eye Contact, Inhalation, Ingestion.

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 on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

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.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: None to 212 F

GENERAL HAZARD:

There are no unusual fire and explosion hazards known.

EXTINGUISHING MEDIA:

Water fog, carbon dioxide, dry chemical, or foam.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 3 of 6
Date-Issued: 12/03/1997
MSDS Ref. No: AHYD23717
Date-Revised: 12/16/1997
Revision No: 1

Hydrotech Liquid Flocc Plus

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

SMALL SPILL:

For small spills, dilute with copious amounts of water and flush to sewer.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

Avoid contact with eyes, skin or clothing. Avoid breathing vapors.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

| | | EXPOSURE LIMITS | | | | | |
|--------------------------------------|-----|--------------------|-------------------|-----------|-------------------|--------------|-------------------|
| | | OSHA PEL | | ACGIH TLV | | SUPPLIER OEL | |
| | | ppm | mg/m ³ | ppm | mg/m ³ | ppm | mg/m ³ |
| Cationic polymer blend (Proprietary) | 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 vapors.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 4 of 6
Date-Issued: 12/03/1997
MSDS Ref. No: AHYD23717
Date-Revised: 12/16/1997
Revision No: 1

Hydrotech Liquid Flocc Plus

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:

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Odorless

APPEARANCE: Clear

COLOR: Purple

pH: 3.5 to 4.0

SOLUBILITY IN WATER: Miscible in Water

SPECIFIC GRAVITY: 1.18 g/ml

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. Strong oxidizing agents. This material may react slowly with iron, copper or aluminum resulting in corrosion and/or product degradation.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 5 of 6
Date-Issued: 12/03/1997
MSDS Ref. No: AHYD23717
Date-Revised: 12/16/1997
Revision No: 1

Hydrotech Liquid Flocc Plus

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

This product is an eye irritant.

SKIN EFFECTS:

Non-irritating 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.

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:

Wash down drain with excess water. Dispose in accordance with federal, state and local regulations.

EMPTY CONTAINER:

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

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Liquids, N.O.S. (Contains hydroxychloride complex)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 1760

PACKING GROUP: III

OTHER SHIPPING INFORMATION: Limited Quantity

15. REGULATORY INFORMATION

UNITED STATES

OSHA HAZARD COMM. RULE:

Product is hazardous by definition of the Hazardous Communication Standard.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 6 of 6
Date-Issued: 12/03/1997
MSDS Ref. No: AHYD23717
Date-Revised: 12/16/1997
Revision No: 1

Hydrotech Liquid Flocc Plus

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

16. OTHER INFORMATION

REVISION SUMMARY

Revision #: 1

This MSDS replaces the December 03, 1997 MSDS. Any changes in information are as follows:
In Section 14
DOT Proper Shipping Name

NFPA CODES

HEALTH: 1 FIRE: 0 REACTIVITY: 0

HMIS CODES

HEALTH: 1 FIRE: 0 REACTIVITY: 0 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.
