

MATERIAL SAFETY DATA SHEET

MSDS

Page: 1 of 6
Date-Issued: 09/12/1997
MSDS Ref. No: AHYD26257
Date-Revised: 09/15/1997
Revision No: New MSDS

Hydrotech Accu-Test Reagent #7 (Calcium Buffer)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hydrotech Accu-Test Reagent #7 (Calcium Buffer)
GENERAL USE: Water Analysis
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>
2-Aminoethanol	141-43-5	~32
Hydrochloric acid	7647-01-0	~6

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE:

Colorless liquid with pungent odor.

IMMEDIATE CONCERNS:

DANGER: Highly Corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or safety glasses and rubber gloves when handling this product. Irritating to nose and throat. Avoid breathing fumes. Remove and wash contaminated clothing before reuse.

POTENTIAL HEALTH EFFECTS

EYES:

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

SKIN:

DANGER: Highly Corrosive. Causes skin damage. Do not get on skin.

INGESTION:

May be fatal if swallowed.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 2 of 6

Date-Issued: 09/12/1997

MSDS Ref. No: AHYD26257

Date-Revised: 09/15/1997

Revision No: New MSDS

Hydrotech Accu-Test Reagent #7 (Calcium Buffer)

INHALATION:

Irritating to nose and throat. Avoid breathing vapors.

CHRONIC:

Prolonged or repeated skin exposure may cause severe irritation or dermatitis.

ROUTES OF ENTRY:

Skin Contact, Inhalation, Ingestion, Eye Contact.

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:

Wash off excess chemical with soap and water and flush skin with cold water for at least 15 minutes. If irritation persists, get 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:

Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Determined

GENERAL HAZARD:

Heated solvent vapors can travel to an ignition source and flash back.

EXTINGUISHING MEDIA:

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

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.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 3 of 6
Date-Issued: 09/12/1997
MSDS Ref. No: AHYD26257
Date-Revised: 09/15/1997
Revision No: New MSDS

Hydrotech Accu-Test Reagent #7 (Calcium Buffer)

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:

STEP TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Utilizing appropriate clothing and safety equipment, contain spill 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, state and federal regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES:

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

HANDLING:

Use safe chemical handling procedures for the hazards presented by this material.

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 ppm	mg/m ³	ACGIH TLV ppm	SUPPLIER OEL ppm	mg/m ³
2-Aminoethanol	TWA	3	6	3	7.5	
	STEL	6		6		
Hydrochloric acid	TWA	5		5		

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.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 4 of 6

Date-Issued: 09/12/1997

MSDS Ref. No: AHYD26257

Date-Revised: 09/15/1997

Revision No: New MSDS

Hydrotech Accu-Test Reagent #7 (Calcium Buffer)

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: Pungent

APPEARANCE: Clear

COLOR: Colorless

pH: 10.6

SOLUBILITY IN WATER: Miscible in Water

SPECIFIC GRAVITY: 1 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:

Vapors/fumes of organic/inorganic materials plus oxides of carbon may be emitted.

INCOMPATIBLE MATERIALS:

Other swimming pool/spa chemicals in their concentrated forms. Bases and strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

This product is corrosive to eyes.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 5 of 6
Date-Issued: 09/12/1997
MSDS Ref. No: AHYD26257
Date-Revised: 09/15/1997
Revision No: New MSDS

Hydrotech Accu-Test Reagent #7 (Calcium Buffer)

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.

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:

Dispose of unused, uncontaminated product in compliance with 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: Corrosive Liquids, N.O.S.

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 1760

PACKING GROUP: III

OTHER SHIPPING INFORMATION: Limited Quantity

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

313 REPORTABLE INGREDIENTS: Hydrochloric acid is a SARA Title III Section 313 Toxic Chemical.

MATERIAL SAFETY DATA SHEET

MSDS

Page: 6 of 6

Date-Issued: 09/12/1997

MSDS Ref. No: AHYD26257

Date-Revised: 09/15/1997

Revision No: New MSDS

Hydrotech Accu-Test Reagent #7 (Calcium Buffer)

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Hydrochloric acid (muriatic acid) (CAS # 7647-01-0), a component of this product, has a CERCLA RQ of 5000 lbs.

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.

16. OTHER INFORMATION

REVISION SUMMARY

New MSDS

NFPA CODES

HEALTH: 3 FIRE: 1 REACTIVITY: 0

HMIS CODES

HEALTH: 3 FIRE: 1 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.
