

MATERIAL SAFETY DATA SHEET

SECTION I - COMPANY AND PRODUCT INFORMATION

Product SKU Number:..... 3607
Manufacturer's Name:..... Chem Lab Products, Inc.
Emergency Telephone No.:..... (909) 390-9912
..... (800) 424-9300 (CHEMTREC)
Street Address:..... 5160 E. Airport Drive
City/State/Zip code:..... Ontario, CA 91761
Chemical Name and Synonyms:... (1-hydroxyethylidene, 1-diphosphonic acid); HEDP
Trade Name and Synonyms:..... **Aqua Guard Calcium Hardness Reducer**
Chemical Family:..... Phosphonates
Formula: $C(OH)(CH_3)(PO_3H_2)_2$ CAS # 07647-01-0
NFPA Rating: Health:2 Flammability:0 Reactivity:0 Special:
DOT Proper Shipping Name:..... Consumer commodity DOT Hazard Class:..... ORM-D
DOT ID Number:..... N/A Package Group:..... III

SECTION II - HAZARDOUS INGREDIENTS

1-hydroxyethylidene,1-diphosphonic acid Phosphorous Acid..... 20%

SECTION III - PHYSICAL DATA

FREEZING POINT.....	>32°F	DECOMPOSITION TEMPERATURE...	N/A
BOILING POINT	N/A	BULK DENSITY (loose).....	N/A
SPECIFIC GRAVITY (H ₂ O)=1)...	1.040	pH (in 1% solution).....	>0
pH	>0	SOLUBILITY IN WATER.....	N/A
VAPOR PRESSURE (cm Hg.).....	N/A		
PERCENT VOLATILE BY VOLUME ...	N/A	MOLECULAR WEIGHT.....	206.027
EVAPORATION RATE (____=1).....	N/A	APPEARANCE....	clear, red liquid
VAPOR DENSITY (Air = 1).....	N/A	ODOR.....	slight acetic acid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... N/A
FLAMMABLE LIMITS..... N/A
EXTINGUISHING MEDIA.... Water spray, Dry chemical, CO₂ or other class B extinguishing agent.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing and self-contained breathing apparatus if exposed to vapors or products of combustion.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:..... None Established

EFFECTS OF OVEREXPOSURE: No adverse effects.

EMERGENCY AND FIRST AID PROCEDURES:

IF SWALLOWED: Wash mouth thoroughly with water. Get immediate medical attention. **IF IN EYES:**

Flush 15 minutes with cold water. Get medical attention if irritation persists. **IF ON SKIN:**

Wash effected area with soap and water.

SECTION VI - REACTIVITY DATA

STABILITY: This Product is stable

CONDITIONS TO AVOID: None known

INCOMPATIBILITY:(Materials to avoid)

Reacts with organic matter and other easily chlorinated or oxidized materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Phosphines may form after all the water has been removed. CO, CO₂ and oxides of nitrogen may also be formed.

HAZARDOUS POLYMERIZATION:..... WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF MATERIAL RELEASED OR SPILLED:

Wear eye protection, protective clothing and respiratory protection during clean-up. Sweep up and recover or mix material with moist absorbent and shovel into waste container, wash down spill area with copious amounts of water and flush to sanitary drain or sewer serviced by waste water treatment facility.

WASTE DISPOSAL METHOD: This material toxic to fish. Do not contaminate water by cleaning equipment or by disposal wastes. Untreated effluent should not be discharged where it will drain into lakes, streams, or ponds. Dispose of waste in facility permitted for non-hazardous waste.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: (Specify type)

Use MSHA-NIOSH approved respirator for dusts, mists, and fumes with TLV not less than .05 mg/m³

VENTILATION:

LOCAL EXHAUST:At open transfer points. As needed to avoid mists.

MECHANICAL:If possible to provide

PROTECTIVE GLOVES: Rubber Gloves

EYE PROTECTION: Use chemical goggles

OTHER PROTECTIVE EQUIPMENT: Chemical splash goggles and face shield as a minimum. Acid resistant apron.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

OTHER PRECAUTIONS: None Known.

This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

Revised/Revised: Sept. 14, 2006

