

# MATERIAL SAFETY DATA SHEET

## SECTION I - COMPANY AND PRODUCT INFORMATION

Product SKU Number:..... 338  
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:..... Kem Tek Calcium and Metal Eliminator  
Chemical Family:..... Phosphonates  
Formula:  $C(OH)(CH_3)(PO_3H_2)_2$  CAS # 07647-01-0

NFPA Rating: Health:3 Flammability:0 Reactivity:0 Special: ACID

DOT Proper Shipping Name:..... Consumer commodity  
DOT ID Number:..... N/A  
DOT Hazard Class:..... ORM-D  
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 <sub>2</sub> 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, CO<sup>2</sup> or other class B extinguishing agent.

### SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing and self-contain 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, CO<sub>2</sub>, and oxides of nitrogen may also be formed.

**HAZARDOUS POLYMERIZATION:**..... WILL NOT OCCUR

**CONDITIONS TO AVOID** ..... None Known

## **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 cleanup. 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 wastewater treatment facility.

**WASTE DISPOSAL METHOD:**

This material **is** toxic to fish. Do not contaminate water by cleaning equipment or disposal of 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/m<sup>3</sup>

**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 STORING:**

None

**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.