

# MATERIAL SAFETY DATA SHEET

## SECTION I - COMPANY AND PRODUCT INFORMATION

Product SKU Number:..... 332  
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:... Hydrochloric Acid  
Trade Name and Synonyms:..... Kem Tek MURIATIC ACID  
Chemical Family:..... Acids  
Formula:.....HCl \_\_\_\_\_CAS # 07647-01-0

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

DOT Proper Shipping Name:..... Hydrochloric acid, solution  
DOT ID Number:..... UN1789  
DOT Hazard Class:..... 8, CORROSIVE  
Package Group:..... II

## SECTION II - HAZARDOUS INGREDIENTS

HYDROCHLORIC ACID.....29.0%

## SECTION III - PHYSICAL DATA

FREEZING POINT..... N/A \_\_\_\_\_DECOMPOSITION TEMPERATURE... N/A  
BOILING POINT ..... 178° F \_\_\_\_\_BULK DENSITY (loose)..... N/A  
SPECIFIC GRAVITY (H<sub>2</sub>O)=1).... 1.16 \_\_\_\_\_pH (in 1% solution)..... N/A  
VAPOR PRESSURE (cm Hg.).. 25 mm 11g.  
PERCENT VOLATILE BY VOLUME ... N/A \_\_\_\_\_MOLECULAR WEIGHT.....36.461  
EVAPORATION RATE (\_\_\_\_=1)..... N/A \_\_\_\_\_APPEARANCE..... Greenish-yellow  
VAPOR DENSITY (Air = 1)..... 11.0 \_\_\_\_\_ODOR..... A pungent odor

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... None  
FLAMMABLE LIMITS..... N/A  
EXTINGUISHING MEDIA..... Non-Flammable

### SPECIAL FIRE FIGHTING PROCEDURES:

... Wear positive pressure self-contained breathing apparatus.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

... Hydrochloric acid is non-flammable. Acid action on most metals may  
... release Hydrogen, a highly flammable and explosive **gas**.

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:..... 5ppm as Hydrogen Chloride

### EFFECTS OF OVEREXPOSURE:

... **EYE**- severe irritation with corneal injury which may result in  
... blindness. **SKIN** - severe irritation. **INGESTION** - may cause  
... gastrointestinal irritation or ulceration and severe burns of the  
... mouth and throat. **INHALATION** - severe irritation.

### EMERGENCY AND FIRST AID PROCEDURES:

... **EYES**: Wash with water for 15 minutes and get medical attention  
... promptly. **INGESTION**: Do not induce vomiting; give large amounts  
... of water. Follow with milk of magnesia, beaten eggs, or vegetable  
... oil. Call physician immediately. **INHALATION**: remove to fresh air

... if effects occur. **SKIN:** Flush with water for 15 minutes.

## **SECTION VI - REACTIVITY DATA**

**STABILITY:** This Product is stable

**CONDITIONS TO AVOID:**

... Contact with metals may cause generation of flammable  
... concentrations of hydrogen gas.

**INCOMPATIBILITY:** (Materials to avoid)

... Avoid basic and corrosive materials. Avoid contact with most  
... metals. Avoid oxidizing materials (can oxidize to chlorine).

**HAZARDOUS DECOMPOSITION PRODUCTS:**.... None

**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:**

... Small quantities may be flushed with copious quantities of water;  
... in case of larger amounts, contain liquid. Use limestone, lime or  
... soda ash to cautiously neutralize. Since considerable amounts of  
... heat and steam may be generated during neutralization.

**WASTE DISPOSAL METHOD:**

... Comply with all local, state, and federal regulations.

## **SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** (Specify type)

... Where required to maintain exposure levels before exposure limits  
... use a NIOSH approved respirator for hydrogen chloride gas, or  
... hydrogen chloride mists as applicable.

**VENTILATION:**

**LOCAL EXHAUST:** If possible... **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:**

... Prevent all contact with eyes and skin. Avoid breathing  
... irritating vapors.

**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.