

MATERIAL SAFETY DATA SHEET

Date of Revision: January 2006

SECTION I - PRODUCT IDENTIFICATION

Manufactured by: **VentureTECH Corporation**
10720 Lexington Drive
Knoxville, TN 37932

Information Phone: (865) 966-2532
Emergency Phone: (865) 544-9400

Chemical Name:

Trade Name:

Chemical Family:

Formula:

HYDRO KLEEN

Acids

HCl (22%) as Aqueous Solution

! NFPA Hazard Ratings: Health - 3
! none -> extreme Fire - 0
! 0 -----> 4 Reactivity - 1
! Special Hazard Warning -
! Personal Protection - DC

SECTION II - HAZARDOUS INGREDIENTS

Principal Hazardous Compound:
Muriatic Acid

Percent:
60%

CAS No:
7647-01-0

TLV:

SECTION III - PHYSICAL DATA

Appearance & Odor: Brown to Amber Liquid

Percent Volatile by Volume: 75

Specific Gravity: 1.1

Wt. per Gallon: 9.2

pH: <.1

Boiling Range: 215 F

Evaporation Rate: NA

Vapor Density: NA

Solubility in Water: Complete

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: Non-Combustible

Flash Point: None

LEL:

UEL:

Extinguishing Media:

Non-Flammable. Fight source of fire with water spray, carbon dioxide, chemical foam, dry chemical as required by surrounding fire.

Special Fire fighting Procedures:

If this material is involved in a fire, NIOSH approved self contained respiratory should be worn. Thermal decomposition emits oxides of Chlorine.

Unusual Fire & Explosion Hazards:

None known

SECTION V - HEALTH HAZARD DATA

Permissible Exposure Level:

Not Established

Effects of Overexposure:

PRIMARY ROUTES OF ENTRY: (X) Skin Contact (X) Eye Contact (X) Inhalation (X) Ingestion

SIGNS AND SYMPTOMS OF EXPOSURE:

ACUTE: Corrosive. Burns all body tissues unless promptly washed off. Vapors cause severe irritation of eyes and respiratory passages. Liquid contact with eyes causes burns.

CHRONIC: Exposure may cause irritation and damage to exposed tissues.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: CARCINOGENICITY: () OSHA () NTP () IARC

FIRST AID:

Inhalation: Remove from further exposure to vapors, mists and sprays. Support respiration if needed. Consult physician if symptoms persist.

Skin Contact: Remove contaminated clothing and wash contaminated areas with plenty of water for 15 minutes.

Eye Contact: Flush eyes immediately with large quantities of water for 15 minutes, lifting the eyelids occasionally. Get medical attention. Washing eyes within several seconds is essential.

Ingestion: Do not induce vomiting. Give large quantities of water to dilute effect, Consult physician if symptoms persist.

SECTION VI - REACTIVITY DATA

Stability:

(X) Stable () Unstable

Incompatibility:

Alkalies and amines. Reacts with most metals to evolve Hydrogen Gas.

Conditions to Avoid

Strong oxidizers.

Hazardous Decomposition Products:

Hydrogen Chloride gas.

Hazardous Polymerization:

(X) Will not occur, () May occur

SECTION VII SPILL OR LEAK PROCEDURES

Steps To Be Taken in Case Material is Released or Spilled:

Confine as much as possible. Dike and absorb with inert material such as Oil dry or Vermiculate. Neutralize with soda ash. Transfer to containers for disposal. Flush contaminated area with plenty of water. Avoid wash water entering natural waterways or public water supplies.

Waste Disposal Method:

Neutralize with soda ash and bury in land fill. Dispose of waste in accordance with Federal, State, and local ordinances.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection:

Use NIOSH/MSHA approved respirators where vapor or mist may be generated.

Ventilation:

Local Exhaust. Good room ventilation usually adequate for most operations.

Protective Gloves:

Prevent contact with skin. Use impervious rubber or neoprene gloves.

Eye Protection:

Chemical type goggles or face shield recommended.

Other Protective Equipment:

Wear appropriate protective clothing to prevent contact with product.

Wash hands thoroughly after use. Wash contaminated before reuse

SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken in Handling and Storing:

Empty containers should be reconditioned by certified firms. Disposal of empty containers should be in accordance with applicable laws and regulations. Store in a cool, dry place. Keep container closed. Keep out of reach of children.

Other Precautions:

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