

CHEM INTERNATIONAL**MATERIAL SAFETY DATA SHEET****EMERGENCY#:** CANUTEC (613) 996-6666**PRODUCT IDENTIFICATION AND PREPARATION INFORMATION****PRODUCT NAME:** C.I. Concrete Remover**EFFECTIVE DATE:** January 7, 2009**WHMIS CLASS:** E; D1B**T.D.G. CLASSIFICATION:** Hydrochloric acid solution.**UN:** 1789 **CLASS:** 8 **PG:**II**MATERIAL USE:** Acid cleaner used to clean concrete.**HAZARDOUS INGREDIENTS**

INGREDIENTS	CAS #	Wt%	ACGTH-TLV	LC50	LD50
Hydrochloric acid as 100% HCl	7641-01-0	10-30	Ceiling 5 ppm	Inhalation Rat 3124 ppm for 1 hour	LD ₅₀ Oral (rabbit) 900 mg/kg

PHYSICAL DATA**PHYSICAL STATE:** Liquid**SP.GRAVITY:** 1.073**pH:** Strong acid < 1**BOILING POINT:** 55.5°C**VAPOUR PRESSURE:** 146 mm Hg at 25°C**VAPOUR DENSITY:** For HCl gas 1.27**EVAPORATION RATE:** Not Avail.**FREEZING POINT:** Not Avail.**SOLUBILITY IN WATER:** 100%**APPEARANCE & ODOUR:** Pale solution with a sharp, pungent irritating odour.**FIRE AND EXPLOSION DATA****FLASH POINT (Test Method):** N/A**FLAMMABLE LIMITS IN AIR, % BY VOL.:** Non-flammable**LOWER:** N/A**UPPER:** N/A**FIRE EXTINGUISHING SUBSTANCES:** () Water Fog () Foam () CO₂ () Dry Chem (X) Other: Use appropriate media to extinguish surrounding fire.**HAZARDOUS COMBUSTION PRODUCTS:** Will emit toxic fumes of hydrogen chloride.**SPECIAL FIREFIGHTING PROCEDURES:** Full protective equipment, including a self contained breathing apparatus should be worn to protect against corrosive liquid and vapour.**REACTIVITY DATA****INCOMPATIBILITY:** () Water (X) Oxidizing Material () Acid (X) Base (X) Other: High temperatures, metals.**HAZARDOUS DECOMPOSITION PRODUCTS:** Reacts with most metals to produce hydrogen which may form explosive mixtures with air. When heated, hydrogen chloride is released.**CHEMICAL STABILITY:** Stable under normal conditions.**FIRST AID****INHALATION:** Move victim to fresh air. If not breathing give artificial respiration. Get immediate medical attention.**INGESTION:** Do not induce vomiting. Unless unconscious, give 1-2 glasses of milk or water to dilute the material. Get immediate medical attention.**EYES:** Flush with running water for at least 20 minutes. Get medical attention immediately.**SKIN:** Flush with running water for at least 20 minutes. Get immediate medical attention.

TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: Eyes, skin contact, inhalation, ingestion

EFFECTS OF ACUTE EXPOSURE:

INHALATION: Irritation of the eyes, nose, throat and upper respiratory tract, coughing, choking. Extreme over exposure may lead to ulceration of the oral and nasal mucosa, pulmonary edema and possible death.

INGESTION: Severe burns to mouth, throat, esophagus and stomach; nausea, vomiting. Risk of stomach perforation, convulsions, coma & death.

EYES: Severe burns, conjunctivitis leading to permanent damage, possible blindness.

SKIN: Severe skin burns, blisters. Prolonged or repeated contact to dilute solutions may cause irritation and dermatitis.

EFFECTS OF CHRONIC EXPOSURE:

CARCINOGENICITY: Non hazardous by WHMIS Criteria;

REPRODUCTIVE EFFECTS - N/D;

TERATOGENICITY - N/D;

MUTAGENICITY - N/D;

SYNERGISTIC MATERIAL - N/D

PREVENTATIVE MEASURES

STEPS TO BE TAKEN UPON RELEASE OR SPILLAGE (including neutralizing): Remove all ignition sources. Ventilate and evacuate area. Stop and contain leak or spill. Cover with dry sand, ashes or gravel. Neutralize and dispose of in polyethylene containers. Do not allow to enter water ways. Sodium carbonate can be used as neutralizing agent.

WASTE DISPOSAL METHOD: Consult, federal, provincial and local regulations. May be possible to flush and disperse neutralized material into drain with large amounts of water or dispose of neutralized contaminated material in a secured sanitary landfill site.

HANDLING AND STORAGE REQUIREMENTS: Store in cool, dry, well ventilated area in closed containers away from heat sources, metal and oxidizers.

VENTILATION REQUIREMENTS (LOCAL OR GENERAL): If excessive vapours or mists are generated, an approved respirator should be used.

RESPIRATORY PROTECTION: A mask should be worn.

EYE PROTECTION: Chemical Workers goggles.

OTHER PROTECTION: Impervious clothing - rubber gloves and coveralls should be worn.

HMIS HAZARD RATING INFORMATION

FIRE

REACTIVITY

HEALTH

PERSONAL PROTECTION

0 – Minimal, 1- Slight, 2 – Moderate, 3 – Serious, 4 – Extreme.

DISCLAIMER: Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases, data is not available and is so stated. Since conditions of actual product use are beyond the control of the supplier, it is assumed that the user of this material has been fully trained according to the mandatory requirements of WHIMIS. No warranty, expressed or implied is made, and supplier will not be liable for any losses, injuries, or consequential damage that may result from the use or reliance on any information contained in this form.

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