

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

Concrete Remover/Cleaner Acid Based – Part # 87120, 87145

SECTION 1 — PRODUCT IDENTIFICATION

WHMIS Classification: D1A, E

PRODUCT NAME: Concrete Remover – Acid Based

PRODUCT USE: Concrete Remover.

MANUFACTURER: Lloyds Laboratories Inc.

SUPPLIER: Lloyds Laboratories Inc.

ADDRESS: 613 Neal Drive,
Peterborough,
Ontario,
K9J 6X7

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EMERGENCY #: 1 800 361-6766

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SECTION 2 — CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>LD₅₀ mg/kg oral/rabbit</u>	<u>LD₅₀ mg/kg skin/rabbit</u>	<u>LC₅₀ ppm inh/rat</u>
Hydrogen Chloride	7647-01-0	5-15	3,125	not av	900
Alcohol ethoxylate	68439-46-3	0.5-5	2,000	not av	not av

SECTION 3 — HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Routes of entry: Inhalation, ingestion, skin and eye contact.

Emergency Overview: Danger! Extremely corrosive! Causes severe burns and eye damage.

Signs and symptoms of short-term (acute) exposure:

Inhalation: Severely corrosive to the respiratory tract. May cause sore throat, coughing, labored breathing and lung congestion/inflammation.

Skin contact: Severely Corrosive to the skin. Skin contact causes serious skin burns which may not be immediately apparent or painful.

Eye contact: Contact can result in corneal damage or blindness, immediate pain, severe burns.

Ingestion: Corrosive. May cause severe burns to throat, abdominal pain, diarrhea, vomiting, severe burns of the digestive tract, and kidney dysfunction and in severe cases death.

Effects of long-term (chronic) exposure: See Section 11.

Other important hazards: Long term exposure to concentrated vapours may cause erosion to teeth. Long term exposures seldom occur due to the corrosive properties of the acid.

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SECTION 4 — FIRST AID MEASURES

Inhalation: Remove victim to fresh air. If symptoms persist, call a physician.

Skin contact: Flush skin with plenty of water, for at least 15 minutes, while removing contaminated clothing. Call physician immediately. Wash contaminated clothing before reuse. Obtain medical attention.

Eye contact: IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Consult a doctor immediately.

Ingestion: Immediately call physician. DO NOT induce vomiting. Give several glasses of water. Never give anything by mouth if victim is unconscious or convulsing.

SECTION 5 — FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability: Not flammable.

Flash point (Method): Not applicable. °C (°F).

Lower flammable limit (% by volume): Not applicable.

Upper flammable limit (% by volume): Not applicable.

Explosion data: *Sensitivity to mechanical impact:* Not sensitive. *Sensitivity to static discharge:* Not sensitive.

Oxidizing properties: None.

Auto-ignition temperature: None.

Suitable extinguishing media: As appropriate for burning of surrounding products.

Special fire-fighting procedures/equipment: Structural fire fighters protective clothing is ineffective for fires involving hydrochloric acid. In the event of a fire wear full protective clothing and Niosh approved self contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure methods.

Hazardous combustion products: Not applicable.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear adequate personal protective equipment.

Environmental precautions: No special precautions required.

Spill response/Cleanup: Recover and reuse as much of the product as possible. Restrict access to area until completion of clean up. Ensure trained personnel conduct clean up. Do not touch spilled material.

Prohibited materials: None known.

SECTION 7 — HANDLING AND STORAGE

Safe handling procedures: Product is corrosive. Avoid contact with skin, eyes and clothing. Wear proper protective equipment, including rubber gloves.

Storage requirements: Store in a cool, dry area. Keep away from incompatible materials, (See Sect. 10).

Special packaging materials: Plastic or other corrosion resistant containers.

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation and engineering controls: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Respiratory protection:

Protective gloves/Skin protection: Wear protective clothing, including PVC or Neoprene gloves.

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Eye protection: Use chemical goggles and/or a full face shield.

Other protective equipment: As required by workplace standards.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical form, color and odor: Red liquid, with cherry odour.

Odor threshold: n/av.

pH: 1-2.

Boiling point: n/av.

Melting/freezing point: n/av.

Vapour pressure: n/av.

Solubility in water: Very soluble.

Coefficient of oil/water distribution: Essentially zero.

Specific gravity or relative density (water = 1): 1.15.

Vapour density: n/av.

Volatile organic compounds (VOC's): n/ap.

Evaporation rate: n/ap.

Percent Volatile by Weight: n/av.

SECTION 10 — REACTIVITY AND STABILITY DATA

Stability and reactivity: Normally stable under normal use.

Conditions to avoid: Unintentional contact with water and moisture. Keep containers tightly closed, when not in use.

Materials to avoid: Strong bases, reactive metals. When diluting DO NOT add water to the acid. Add acid to water. Hydrogen Chloride is incompatible with arsenic trioxide, phosphorus pentoxide, ammonia, calcium oxide, sodium hydroxide, vinyl acetate, ethylenediamine, acetic anhydride, alkalis, organic materials, most common metals, rubber, leather, strong bases, carbonates, sulfides, cyanides.

Hazardous decomposition products: Toxic chlorine fumes. Thermal oxidative decomposition produces toxic chlorine fumes and explosive hydrogen gas.

SECTION 11 — TOXICOLOGICAL INFORMATION

LD₅₀: Not established for this product. See Section 2 for values for ingredients.

LC₅₀: Not established for this product. See Section 2 for values for ingredients.

Exposure limits: ACGIH-TLV Hydrogen chloride: -OSHA Permissible Exposure Limit (PEL): 3 ppm (TWA) ACGIH Threshold Limit Value (TLV): 3 ppm Ceiling as F 2 ppm (Ceiling) for Hydrogen chloride.

Carcinogenicity: None of the ingredients are listed by IARC, ACGIH, NTP, and OSHA as carcinogen.

Teratogenicity, mutagenicity, other reproductive effects: Hydrogen Chloride is investigated as mutagen and reproductive effector.

Sensitization to material: Not reported.

Conditions aggravated by exposure: Skin conditions.

Synergistic materials: None known.

Chronic Exposure: Long term exposure to concentrated vapours may cause erosion to teeth.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders, eye problems, or impaired kidney or respiratory function may be more susceptible to the effects of HCl.

SECTION 12 — ECOLOGICAL INFORMATION

Environmental effects: Product is corrosive. Low pH (acidity) of material is harmful to aquatic life. Contains Hydrogen Chloride:

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Environmental Fate: If the pH is 6.5, soil can bind chlorides tightly. High calcium content will immobilize chlorides, which can be damaging to plants when present in acid soils.

Environmental Toxicity: This material is expected to be toxic to aquatic life. 60 ppm*/Fish/Lethal/Fresh Water
*=time period not specified. 300ppm/48hr./Shrimp/LC50/Aerated Saltwater.

SECTION 13 — WASTE DISPOSAL

Handling for disposal: Reuse if possible.

Methods of disposal: Use only licensed waste disposal services. Follow local, provincial, state and federal regulations.

SECTION 14 — TRANSPORTATION INFORMATION

Shipping description: TDG - Class 8: Corrosive liquid UN 1760 PG II; Environmentally hazardous material.

Please note: This shipping description is of a general nature only. It does not consider package sizes, modes of transport and other specific circumstances. Appropriate regulations should be referenced, and handling for transportation of dangerous goods/hazardous materials should be performed by trained personnel only.

SECTION 15 — REGULATORY INFORMATION

WHMIS information: D1A, E.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

SECTION 16 — OTHER INFORMATION

Prepared for: Lloyds Laboratories Inc.

Telephone number: 1 800 361-6766

Preparation date: April 15, 2016

References:

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2003.
2. International Agency for Research on Cancer Monographs, Supplement 7, 1988.
3. Canadian Centre for Occupational Health and Safety. CHEMINFO database.
4. Material Safety Data Sheets from raw materials suppliers.
5. N. Irving Sax. Dangerous Properties of Industrial Materials, Seventh Edition.

n/ap Not applicable

n/av Not available

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 supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST in Montreal, Quebec (514-873-3990).