

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

CONCRETE CLEANER
PART # 82104, 82120, 82145

SECTION 1A: MATERIAL IDENTIFICATION

PRODUCT NAME: CONCRETE CLEANER **WHMIS Class:** Class D – Division 2 B
Class E – Note: Corrosive to aluminum only. Non-corrosive to skin and mild steel.

PRODUCT USE: CONCRETE CLEANER **Chemical Family:** Organic acid salt

SECTION 1B: SUPPLIER IDENTIFICATION

MANUFACTURER: Lloyds Laboratories Inc. **SUPPLIER:** Lloyds Laboratories Inc.

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

EMERGENCY #: 1 800 361-6766 **EMERGENCY #:** 1 800 361-6766

SECTION 2: HAZARDOUS INGREDIENTS OF MATERIAL

| Hazardous Ingredients | % Concentration | CAS Number | LD50 Oral, Rat – Mg/Kg |
|-----------------------|-----------------|---------------|------------------------|
| Organic Salt | 30 – 50 % | 506-89-8 | Not applicable |
| Alcohol Ethoxylate | 1 – 5 | 68991 – 48 -0 | 72,000 mg/kg |

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: This product is a colorless to slight amber liquid with a mild odor. It is corrosive to the eyes and a mild skin irritant. If ingested this product may be harmful or fatal.

Potential Health Effects: Causes burns to the eyes.

- **Eye:**
- **Skin:** Prolonged or repeated contact can cause irritation.
- **Ingestion:** This product may be harmful or fatal if ingested.
- **Inhalation:** Not a likely route of exposure due to physical properties. Product has a low vapour pressure at room temperature and is not expected to present a significant inhalation hazard under ambient conditions. Product can be irritating to the respiratory tract if inhaled as a mist or if the material is vaporized.

Chronic Effects:

Skin: Prolonged or repeated exposure can cause drying, defatting, and dermatitis.

Carcinogenicity: Non-hazardous by WHMIS/OSHA criteria. Not listed by IARC, NTP, or ACGIH.

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Teratogenicity, Mutagenicity, Reproductive Effects: This product was found not to be mutagenic when tested by the Ames Assay, (OECD Guidelines for Testing of Chemicals, Sec. 471).
Synergistic Materials: Not available.
Potential Environmental Effects: No data available.

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.
Skin: Immediately flush with mild soap and water for 15 minutes. Seek medical attention if irritation develops. Remove contaminated clothing and launder before reuse.
Eye: Immediately flush with water for 15 minutes. Seek medical attention.
Ingestion: **DO NOT** induce vomiting. If conscious, give 3 – 4 glasses of water to dilute and get immediate medical attention.

SECTION 5: FIRE AND EXPLOSION DATA

Flammability: Not flammable
If Yes, under which conditions:
Means of Extinction: Water spray, carbon dioxide and dry chemical.
Special Fire Fighting Procedures: Evacuate personnel to a safe area. Keep containers cool with water spray. Avoid breathing decomposition products. Wear self-contained breathing apparatus and full body protection.
Flashpoint (°C) and Method: Does not ignite.
Auto Ignition Temperature (°C): Not applicable.
Flame Propagation or Burning Rate of Solid Materials: Not applicable
Hazardous Decomposition Products: Thermal decomposition may yield oxides of carbon, nitrogen, and chlorine. Hydrogen gas may be released upon contact with certain metals.
Explosion Data:
- Unusual Fire and Explosion Hazard: At temperatures above 60°C/140°F acid action on most metals may release hydrogen, a highly flammable and explosive gas.
- Sensitivity to Impact: Not applicable.
- Sensitivity to Static Discharge: Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Evacuate area. Ventilate area. Collect for disposal. Clean up remaining materials from spill with suitable absorbent. Small spills may be absorbed with non-reactive absorbent (sand) and placed in suitable, covered, labeled containers. For large spills provide diking or other

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appropriate containment to keep material from spreading. Prevent large spills from entering sewers or waterways. If diked material can be pumped, store recovered material in compatible drums for recovery or disposal. Observe all personal protection equipment recommendations.

SECTION 7: HANDLING AND STORAGE

Keep Out of Reach of Children. Keep container tightly closed. Store in fiberglass, polyethylene, or polypropylene containers. Do not store in metal containers, especially aluminum. Storage in certain metal containers at temperatures above 60°C/140°F may result in hydrogen gas evolution. Do not store at temperatures above 48°C/120°F.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

| | |
|--|--|
| Engineering Controls: | If current ventilation practices are not adequate for minimizing exposures, additional ventilation or exhaust systems may be required. |
| Respiratory Protection: | Not normally required if good ventilation is maintained. Avoid breathing vapour and / or mist. |
| Eye Protection: | Use chemical goggles or full face shield. |
| Skin Protection: | Use impervious (rubber, nitrile) gloves. |
| Other Protective Clothing or Equipment: | Eye bath, Safety shower, Full protective clothing. |

SECTION 9: PHYSICAL DATA

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|--|--------------------------------|
| Physical State: | Liquid |
| Appearance and Odour: | Clear amber liquid, mild odour |
| Activity: | 60 % Typical |
| Boiling Point: | 100°C (212°F) |
| Freezing Point (°C): | <30°C |
| Solubility in Water: | Soluble (100% in water) |
| pH: | 5.0 (Typical) |
| pKa: | 0.176 |
| Specific Gravity(H₂O = 1): | 1.21 +/-0.2 |
| Density (25°C): | 10.1 lbs/gal |
| Normality: | 7.4 +/- 0.2 |

SECTION 10: REACTIVITY DATA

| | |
|--------------------------------|---|
| Stability: | Stable up to 110°C / 230°F |
| Conditions to avoid: | Heating above 110°C results in an exothermic decomposition with rapid release of CO ₂ gas. |
| Incompatible Materials: | Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorites (e.g. chlorine bleach, sulfides, or cyanides will liberate toxic gases. Contact with alkaline materials (e.g. aqua ammonia) will generate heat. |

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Hazardous Decomposition Products: Thermal decomposition may yield oxides of carbon, nitrogen, and chlorine. Hydrogen gas may be released upon contact with certain metals.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Carcinogenicity: Non-hazardous by WHMIS/OSHA criteria. Not listed by IARC, NTP, OR ACGIH.

Teratogenicity, Mutagenicity, Reproductive Effects: This product was found not to be mutagenic when tested by the Ames Assay, (OECD Guidelines for Testing of Chemicals, Sec 471).

Synergistic Materials: Not available.

Acute Eye Irritation/Corrosion Test: This product was found to be corrosive to the eyes when tested using the modified Draize method (OECD Guidelines for testing of chemicals, Sec. 4-5, 1992).

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: 96 hour LC₀>140 mg/L (rainbow trout), 48 hour LC₅₀ 71.1 mg/L (ceriodaphnia dubia), 15 minute IC₅₀, 16.23% effect at a concentration of 10 mg/L (Vibrio fischeri, 4H6002)

Environmental Fate: Urea is biodegradable.

SECTION 13: DISPOSAL INFORMATION

Review federal, provincial, or state and local government requirements prior to disposal.

SECTION 14: REGULATORY INFORMATION

Occupational Health & Safety Regulations:

WHMIS Classification: Class D – Division 2B
Class E – Note: This material is corrosive to Aluminum only.
Non- corrosive to skin and mild steel.

OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

Environmental Regulatory Lists:

SARA: Section 313 (Toxic Chemical Release Reporting) 40 CFR 372 – None of the ingredients are listed.

Toxic Substances Control Act (TSCA): All the ingredients are listed on the Chemical Substance Inventory

Canadian Domestic Substance List (DSL): All ingredients are listed.

HMIS Rating

Health: 2
Flammability 0
Reactivity: 0
PPE: B

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SECTION 14: PREPARATION INFORMATION OF THE MSDS

Prepared by (Group, Dept., etc.): Lab Group and Technical Services Department
Date: September 22, 2008
Phone Number: 705-876-9997
Sources Used for Information: Suppliers Information, Merck Index, CCOHS Information.

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