

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

Calcium, Lime & Rust Remover - Part # 40002

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Calcium, Lime & Rust Remover. **PRODUCT USE:** Descaler.

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 II: INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	OSHA TLV	ACGIH-TLV	LD ₅₀
Organic Salt	Confidential	5.0-10.0 %	Not applicable	Not Applicable	Not known mg/Kg(oral/rat)
Sodium Citrate	6132-04-3	1.0-5.0 %	Not applicable	Not Applicable	Not known mg/Kg(oral/rat)

SECTION III: HAZARDOUS IDENTIFICATION

Route of Entry: Eye, skin contact, ingestion.

Potential Health Effects:

Eye Contact: May cause severe irritation to eyes.

Skin Contact: May cause slight irritation upon repeated/ prolonged contact.

Inhalation: May cause slight nose, throat and respiratory tract irritation.

Ingestion: May cause irritation or blisters to mouth, esophagus and stomach. May cause gastric tract upset and/or damage.

Chronic Effects:

Carcinogenicity: No ingredients listed IARC or NTP or ACGIC. Non hazardous by WHMIS/OSHA criteria.

Teratogenicity, Mutagenicity, Reproductive Effects: The ingredients in this product were found not to be mutagenic when tested by the Ames Assay, (OECD Guidelines for chemical testing, sec.471).

Skin: Repeated or prolonged exposures can cause drying, defatting and dermatitis if sensitive.

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SECTION IV: FIRST AID MEASURES

Eye Contact:	Immediately flush with water for 15 minutes. Holding eyelids open during flushing. If irritation persists, repeat flushing and obtain medical attention immediately.
Skin Contact:	Flush with water. Seek medical attention if irritation persists. Remove contaminated clothing and launder before reuse.
Inhalation:	Move victim to fresh air. If conscious, have victim take deep, slow breaths. Seek medical attention if symptoms persist.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth with water, then drink one glass of water. Seek medical attention. Do not give anything to victim if unconscious or convulsing.

SECTION V: FIRE FIGHTING MEASURES

Flammability:	Non flammable.
Flash Point deg (C,TCC):	Not applicable
Means of Extinction:	As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam.
Special Fire Hazards:	Fire fighters should wear self contained breathing apparatus as for surrounding fire.
Autoignition Temperature:	Not applicable.
Flame Propagation or Burning Rate of Solid:	Not applicable.
Sensitivity to Static Discharge:	Not applicable.
Unusual Fire and Explosion Hazards:	None expected. As per surrounding fire.
Hazardous decomposition products:	Oxides of carbon, oxides of nitrogen.

At 110 C exothermic decomposition will take place with CO₂ being liberated.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures:	Before attempting clean up, refer to the hazard data provided above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, container. For large quantities, dispose of in accordance with local, provincial/ state or federal regulations. For large spills prevent from entering sewers and waterways. For large spills provide diking to prevent spreading.
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SECTION VII: HANDLING AND STORAGE

Storage Requirements:	KEEP OUT OF REACH OF CHILDREN. Store in a closed container away from incompatible materials which include acids, alkalies, reducing materials, reducing sugars and Ammonia Salts. DO NOT MIX with other cleaners- especially chlorine bleach or peroxide. DO NOT store in metal containers. Storage temperature C Ambient to 35 C (must be stored above 0 C at all times). Transport temperature C Ambient to 35 C (must be stored above 0 C at all times).
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Keep container closed. Handle and open container with care. Store in a well ventilated place away from incompatible materials.
Do not reuse empty containers.

SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Not normally required, impervious gloves if sensitive skin or for prolonged exposure.
Eye Protection: If eye contact is possible chemical splash goggles are recommended.
Respiratory Protection: Not normally required if good ventilation is maintained.
Other Protective Equipment: As required by employer code. Eye bath, safety shower, protective clothing.
Engineering Controls: General ventilation normally required.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (deg C)	100	Specific Gravity (H₂O = 1):	1.00-1.02	Evaporation Rate (water=1):	similar
% Volatile (Wt%):	Approx 90 %	Solubility in water:	Complete	pH (as supplied):	1.00
Physical State:	Liquid	Viscosity:	Water like		
Appearance / Odour:	Transparent solution with typical odour				

SECTION X: STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable under normal conditions. Excessive heat or contamination could cause decomposition.
Incompatible Materials: Reducing agents, strong acids, strong caustics, iron and other metals.
Hazardous Decomposition Products: Oxides of carbon, Oxides of Nitrogen when heated.

SECTION XI: TOXICOLOGICAL INFORMATION

LD 50 values for individual components see section II.
Skin Sensitization (OECD Sec. 406) Non sensitizing.

SECTION XII: ECOLOGICAL INFORMATION

Biodegradability: All components of this formulation are biodegradable and as such it would be expected that the whole formulation would be.

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SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of in accordance to all local, provincial/state and federal regulations.

SECTION XIV: TRANSPORTATION

T.D.G. Classification: Not regulated.
D.O.T. Classification: Not regulated.

SECTION XV: REGULATORY INFORMATION

Occupational Health and Safety Regulations:

WHMIS Class:

Class D Division 2B.

OSHA & WHMIS:

MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1920.1200) and Canadian WHMIS regulations.

Environmental Regulatory Lists:

SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372:

None of these ingredients are listed.

CERCLA – Section 102 (Reportable Quantity) 40 CFR 302 :

None of the ingredients are listed.

RCRA 40 CFR 261 (Subpart D):

None of the ingredients are listed.

CLEAN WATER ACT – Section 311

None of these ingredients are listed.

(Reportable Qty) 40 CFR 116:

CLEAN AIR ACT – Section 312 (List of Hazardous Pollutants) 40 CFR 63 (Subpart C):

None of these ingredients are listed.

National Pollutant Release Inventory:

None of these ingredients are listed.

Toxic Substances Control Act (TSCA):

All ingredients are registered on the Chemical Substances Inventory.

Canadian Domestic Substance List (DSL):

All ingredients are registered on the DSL.

SECTION XVI: OTHER INFORMATION

Date: June 7, 2016	Prepared By: Technical Services Group	Telephone: 1 800 361-6766
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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

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Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400)
or CSST in Montreal, Quebec (514-873-3990).