

SAFETY DATA SHEET

Lloyds Laboratories Inc.

Lime, Calcium & Rust Remover – Part #40002, 40020

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

Identification of Preparation: Lime, Calcium and Rust Remover
Date of Safety Data Sheet: April 16, 2018
Use of Preparation: Scale and rust remover.
Company Identification: Lloyds Laboratories Inc.
613 Neal Drive,
Peterborough,
Ontario.
K9J 6X7

Company Telephone Number: 800 361-6766

24 Hour Telephone Number: CANUTEC 613-996-6666 or *666 for cell phone.

2. HAZARD IDENTIFICATION

Emergency Overview:
OSHA / WHMIS 2015 Hazards
Classification of substance or mixture
GHS-US/Canadian classification:
Acute Toxicity (Oral) Category 4 H302.
Eye Damage Category 2A H319.
STOT Single Exposure Respiratory Tract Irritation Category 3 H335.

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS):



Signal Word (GHS): Warning.

Hazard Statements (GHS):

H302: Harmful if swallowed
H319: Causes serious eye irritation
H335: May cause respiratory irritation

Non-Corrosive to Skin: (as defined and tested in accordance with the U.S. OSHA's Hazard Communication Standard, DOT Hazardous Material Regulations, Canada's WHMIS regulations and TDG Regulations. Classified as a mild skin irritant as per the 1992 OECD Guideline for Testing of Chemicals, Number 404 "Acute Dermal Irritation/Corrosion.")

Precautionary Statements (GHS):

P260: Do not breathe mist, spray, vapours.
P264: Wash hands, forearms, and exposed areas thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear face protection, protective clothing, protective gloves, eye protection.

Response Statements (GHS):

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P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Description:

Chemical blend.

Ingredient	CAS#	% by Wt	Classification
Organic salt	207308-34-7	7-15	Acute Toxicity (Oral) Category 4 - H302 Serious Eye Damage/Eye Irritation Category 2A - H319
Alcohol ethoxylate	68991-48-0	1-5	Serious Eye Damage / Eye Irritation Category 2A - H319

4. FIRST AID MEASURES

Inhalation:

Remove to fresh air. If symptoms persist consult physician.

Eye Contact:

Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact:

Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.

Ingestion:

Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personnel. Never give anything to an unconscious person. Get medical aid.

Notes to Physician:

Treatment based on judgment of attending physician.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Any standard extinguishing media (alcohol foam, water spray or fog, CO2 dry chemical, etc.).

Unsuitable extinguishing media:

None known.

Special exposure hazards:

Special safety equipment:

Self-contained positive pressure breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapour or mist.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

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For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

Reference to Other Sections: See Heading 8. Exposure controls and personal protection.

7. HANDLING AND STORAGE

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Information about fire - and explosion protection:

Keep respiratory protective device available.

No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Protect from humidity and water.

Unsuitable material for receptacle: steel.

Unsuitable material for receptacle: aluminium.

Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility:

Do not store together with alkaline products or strong acids.

Store away from oxidizing agents.

Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well-ventilated area.

Keep container tightly sealed.

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Use local exhaust or dilution ventilation.

Hand protection: Chemical resistant gloves.

Eye protection: Safety goggles or full-face shield.

Skin protection: Use body-covering impervious clothing.

Working hygiene: Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

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Physical State	Liquid.	Odour	Typical.
Appearance	Clear.	Odour Threshold	No data available.
Colour	Green.	Remarks/Method	
Property	Values.		
pH	1.04.	None known.	
Melting/Freezing Point	Estimated 0 °C.	None known.	
Boiling Point/Range	100 °C.	None known.	
Flash Point	Not applicable.	None known.	
Evaporation Rate	Similar.	None known.	
Flammability (solid, gas)	Not flammable.	None known.	
Flammability Limit in Air:			
Upper Limit	No data available.	None known.	
Lower Limit	No data available.	None known.	
Vapour Pressure	No data available.	None known.	
Vapour density	No data available.	None known.	
Specific Gravity	No data available.		
Water Solubility	Soluble in water.	None known.	
Solubility Other Solvents	No data available.	None known.	
Partition Coefficient:			
n-octanol/water	No data available.	None known.	
Autoignition temperature	No data available.	None known.	
Decomposition Temperature	No data available.	None known.	
Kinematic Viscosity	No data available.	None known.	
Dynamic Viscosity	No data available.	None known.	
Explosive Properties	No data available.	None known.	
Oxidizing Properties	No data available.	None known.	
Other Properties:			
Softening Point	No data available.		
VOC Content %	No data available.		
Particle Size	No data available.		
Particle Size Distribution	No data available.		

10. STABILITY AND REACTIVITY

Reactivity	Stable.
Chemical stability	Stable under recommended handling and storage conditions (see section 7).
Thermal decomposition/conditions to avoid	No decomposition if used and stored according to specifications. Hydrogen gas may be released upon contact with certain metals, especially aluminum and zinc. Heating above 110C results in an exothermic decomposition with rapid release of CO2 gas.
Possibility of hazardous reactions	Reacts with alkali and metals, amines and oxidizing agents. Corrodes copper, brass and aluminium.
Conditions to avoid	Store away from oxidizing agents.
Hazardous decomposition	Thermal decomposition may yield, but not limited to oxides of

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products	carbon and nitrogen. Hydrogen gas may be released upon contact with certain metals. Warning! Do not use together with other products. 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.
Materials to avoid	
Hazardous polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

LD 50 Calculated basis oral/rat 2,000 mg/Kg.

Primary irritant effect:

On the skin: Caustic effect on mucous membranes.

Non-Corrosive to Skin: (as defined and tested in accordance with the U.S. OSHA's Hazard Communication Standard, DOT Hazardous Material Regulations, Canada's WHMIS regulations and TDG Regulations. Classified as a mild skin irritant as per the 1992 OECD Guideline for Testing of Chemicals, Number 404 "Acute Dermal Irritation/Corrosion.")

On the eye: Strong caustic effect.

Respiratory or Skin Sensitization: None.

Additional toxicological information:

Carcinogenicity:

Chemical Name None.

Reproductive Toxicity: None.

12. ECOLOGICAL INFORMATION

Toxicity:	Not classified.
Persistence and Degradability:	Not available.
Bioaccumulative Potential:	Not available.
Mobility in Soil:	Not available.
Other Adverse Effects:	
Other Information:	All of the organic components of this product are readily biodegradable.

13. DISPOSAL

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology – Waste Materials: Avoid release to the environment.

14. TRANSPORTATION INFORMATION

Canadian TDG (Road & Rail): Not regulated.

U.S. Department of Transportation (DOT): Not regulated.

Water Transportation (IMO): Not regulated.

Air Transportation (IATA): Not regulated.

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15. REGULATORY INFORMATION

Occupational Health & Safety Regulations:

WHMIS 1988 Classification: Class D - Division 2B.



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).

International Inventories

TSCA	Complies.
DSL/NDSL	Complies.
EINECS/ELINCS	Complies.
ENCS	Complies.
IECSC	Complies.
KECL	-
PICCS	-
AICS	Complies.

Legend:

TSCA - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory.

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List.

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances.

ENCS - Japan Existing and New Chemical Substances.

IECSC - China Inventory of Existing Chemical Substances.

KECL - Korean Existing and Evaluated Chemical Substances.

PICCS - Philippines Inventory of Chemicals and Chemical Substances.

AICS - Australian Inventory of Chemical Substances.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

HMIS III Rating

Health: 1 Slight Hazard.

Flammability: 0 Minimal Hazard.

Physical: 0 Minimal Hazard.

Personal Protection: B.

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SDS (GHS HazCom 2012 and WHMIS 2015).

16. OTHER INFORMATION

Prepared By: Technical Dept.

Issuing Date: April 27, 2016

Revision Date: April 16, 2018

Revision Note: Format updates, Physical and Chemical Properties, Stability and Reactivity, Transport Information and Regulation Information sections updated.

Disclaimer:

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However, we do not assume accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.