



## SAFETY DATA SHEET

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### 1 - PRODUCT AND COMPANY IDENTIFICATION

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**Product Name** CLR® CALCIUM, LIME & RUST REMOVER

**Restrictions on Use** Incompatible with strong oxidizing agents, metals (except stainless steel, chrome), acids, bases, and bleach.

**Product Use** Aqueous Acidic Cleaner for Removal of Calcium, Lime, and Rust from Hard Surfaces  
Retail Package: (14, 26, 28, 42, 80, 128 fl. oz.)

**Manufacturer:** Jelmar, LLC  
**Address:** 5550 W. Touhy Ave.  
Skokie, IL 60077 USA  
1(847) 675-8400

**Emergency Phone Number:** 1(800) 323-5497 (USA) 8:30 A.M. – 4:30 P.M. CST Monday – Friday  
**Emergency 24-hour Contact:** Chemtrec 1(800) 424-9300

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### 2 – HAZARDS IDENTIFICATION

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**COMPLIES WITH 29CFR 1900.1200 DATED MAY 2012**

#### CLASSIFICATION

ACUTE EYE IRRITATION (Category 2A)  
ACUTE SKIN IRRITATION (Category 2)

#### LABEL ELEMENTS



**Signal Word** Warning

**Hazard statements** Causes serious eye irritation  
Causes skin irritation

#### Precautionary statement(s)

DO NOT get in eyes, on skin or clothing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice.  
Wear eye protection/face protection.  
Wash skin thoroughly after handling.  
If skin irritation or rash occurs: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of soap and water.  
Wear protective gloves.  
Take off contaminated clothing and wash it before reuse.  
Call a POISON CENTER or doctor/physician if you feel unwell.



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DO NOT mix with bleach or other household chemicals; harmful fumes may result.

Avoid breathing fumes, vapor or mist. Use in well ventilated areas.

Keep container closed when not in use.

DO NOT ingest.

**KEEP OUT OF REACH OF CHILDREN.**

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### SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

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<u>Component</u>	<u>CAS#</u>	<u>OSHA HAZARD</u>	<u>% by Weight</u>
1. Lactic Acid	79-33-4	YES	5.00-18.00
2. Lauramine Oxide	1643-20-5	YES	1.50-7.50

The exact percentages (concentration) of mixture has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

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### SECTION 4 – FIRST AID MEASURES

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#### FIRST AID MEASURES

**EYE CONTACT:** In case of eye contact, immediately rinse eye thoroughly with plenty of water. Remove contact lenses, and continue rinsing for at least 15 minutes. If irritation persists, get medical attention.

**SKIN CONTACT:** Can be irritating to skin, prolonged contact can be more severe. In case of skin contact, rinse area for at least 15 minutes. Remove contaminated clothing and shoes, wash thoroughly before reuse. If irritation persists, get medical attention.

**INHALATION:** Not a significant route of exposure. Remove to fresh air. If breathing is difficult, GET MEDICAL ATTENTION IMMEDIATELY.

**INGESTION:** DO NOT induce vomiting. If fully conscious, drink 16 ounces of water. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER give an unconscious person anything to ingest.

**MOST IMPORTANT SYMPTOMS AND EFFECTS:** Skin and eye irritant.

**NOTES TO PHYSICIAN:** Treat symptomatically.

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### SECTION 5 – FIRE FIGHTING MEASURES

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**SUITABLE EXTINGUISHING MEDIA:** Not flammable. Use appropriate media for area. Use water spray, dry chemical, alcohol-resistant foam or carbon dioxide.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon Monoxide. Thermal decomposition can lead to irritating gases and vapors.

**FIRE FIGHTING METHODS:** Evacuate area of personnel. Wear protective NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Run-off of large quantities of product from fire control may cause pollution. Contact appropriate agencies.

**FIRE AND EXPLOSION HAZARDS:** None known.

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### SECTION 6 – ACCIDENTAL RELEASES MEASURES

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**PERSONAL PRECAUTIONS:** Avoid contact with skin and eyes. Use personal protective equipment as required.



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### METHODS FOR CONTAINMENT AND CLEAN UP:

**Small Spill:** No special clean-up procedure is necessary for small (less than 1 gallon) spills. Flush spill area with water. Wear rubber gloves.

**Large Spill:** Use personal protection recommended in Section 8. Isolate area and deny entry to unnecessary and unprotected personnel. Dam spill, and absorb with earth, sand or similar material. Place in non-leaking containers. Dispose of collected material according to local, state, and federal regulations. Flush residue with large amount of water. Avoid direct discharge to sewers and surface waters.

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### SECTION 7 – HANDLING AND STORAGE

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**HANDLING:** Avoid contact with eyes, skin, or clothing. Use with adequate ventilation. Avoid breathing vapors or mist. Do not eat, drink, or smoke in work area. Wash hands thoroughly after use. Avoid exposure to excess heat. Consumer size containers (14, 26, 28, 42, 80 fluid ounces and gallon containers) should be rinsed and recycled. **DO NOT MIX WITH BLEACH, OR ANY OTHER PRODUCTS AS TOXIC FUMES MAY RESULT. KEEP OUT OF REACH OF CHILDREN.**

**STORAGE:** Store in cool well-ventilated area, away from heat. Prevent from freezing. Keep containers tightly closed. Avoid contact with combustible materials, wood, and organic materials. Store in original containers in a secure area away from children and pets.

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### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

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#### EXPOSURE GUIDELINES:

<u>COMPONENT</u>	<u>OSHA</u>		<u>ACGIH</u>	
	<u>PEL</u>	<u>STEL/C</u>	<u>TWA</u>	<u>STEL/C</u>
1. Lactic Acid	N.E.	N.E.	N.E.	N.E.
2. Lauramine Oxide	N.E.	N.E.	N.E.	N.E.

**VENTILATION REQUIREMENT:** Avoid prolonged breathing of vapor or mists of this product. Use with adequate ventilation. Do not use in closed or confined spaces.

**RESPIRATORY PROTECTION:** None required during normal household use. In an industrial setting, respiratory protection must be worn if ventilation does not eliminate symptoms or keep levels below recommended exposure limits. If vapor or mist is present, wear NIOSH-Approved respirator for vapors and mists, NIOSH-Approved self-contained breathing apparatus, NIOSH-Approved full-face piece positive-pressure, air-supplied respirator. DO NOT exceed limits established by respirator manufacturer. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of product.

**EYE PROTECTION:** None required during normal household use. Wear safety glasses/goggles if potential for splashing exists. Industrial users wear safety goggles. Do not wear contact lenses. Emergency responders should wear full eye and face protection.

**SKIN PROTECTION:** Rubber gloves with protective cuff. Emergency responders should wear impermeable gloves.

**OTHER PROTECTION:** Emergency responders should wear chemical type (impermeable) protective clothing and footwear where direct contact with chemicals in this product is possible.

**WORK/HYGIENIC PRACTICES:** Wash thoroughly with soap and water after use or handling.

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### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** Crystal clear, lime green liquid  
**Odor:** Slightly acidic

**Flammability:**  
**Upper/Lower Flammability**

Not Flammable  
N.A.



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<b>Odor Threshold:</b>	N.D.	<b>Vapor Pressure:</b>	N.D.
<b>pH: @20°C</b>	2.10-2.30	<b>Vapor Density (mm Hg):</b>	N.D.
<b>Melting Point:</b>	N.D.	<b>Relative Density @20°C:</b>	1.040 – 1.060
<b>Freezing Point:</b>	N.D.	<b>Solubility in water:</b>	100%
<b>Boiling Point:</b>	99°C / 210°F	<b>Partition Coefficient;</b>	N.D.
<b>Boiling Point Range:</b>	N.A.	<b>n-octanol/water</b>	
<b>Flash Point:</b>	None	<b>Auto Ignition Temperature:</b>	N.A.
<b>Evaporation Rate:</b>	N.D.	<b>Decomposition Temperature:</b>	N.A.
		<b>Viscosity:</b>	N.D.

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### SECTION 10 – STABILITY AND REACTIVITY

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**REACTIVITY:** N.A.

**CHEMICAL STABILITY:** Stable under normal storage conditions.

**POSSIBILITY OF HAZARDOUS REACTIONS:** N.D.

**CONDITIONS TO AVOID:** Avoid elevated temperatures.

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents, metals (except stainless steel and chrome), bleach, acids, and bases.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition can lead to release of irritating gases, vapors and carbon oxides. In the event of fire: see Section 5.

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### SECTION 11 – TOXICOLOGICAL INFORMATION

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**Routes of Exposure** Eyes, Skin, Inhalation, Ingestion.

**Eyes** Irritant: avoid eye contact. Effects may vary depending on length of exposure, and/or solution concentration.

**Skin** Irritant. Prolonged contact may cause dermatitis and itching.

**Inhalation** No adverse effects expected under typical use conditions.

**Ingestion** No adverse effects expected under typical use conditions. Accidental ingestion may result in oral burns, vomiting, and gastrointestinal disturbance.

#### Information on Toxicological Effects

**LD<sub>50</sub> Acute Oral Toxicity – Rats:** L-(+)-LACTIC ACID: 3,543 mg/kg; LAURAMINE OXIDE: 1,064 mg/kg

**LD<sub>50</sub> Acute Dermal Toxicity:** L-(+)-LACTIC ACID: >2,000 mg/kg (rabbit); LAURAMINE OXIDE: > 2,000 mg/kg (rat)

**LD<sub>50</sub> Acute Inhalation Toxicity – Rats:** L-(+)-LACTIC ACID: >7.94 mg/L (4h, aerosol); LAURAMINE OXIDE: no data available

**Eye Irritation:** GHS Category 2A – Irritant.

**Skin Irritation:** GHS Category 2 – Skin Irritation.

**Skin Sensitization:** Product is not classified based on available data.

**Respiratory Sensitization:** Product is not classified based on available data.



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**Carcinogenicity:** This product does not contain any substances that are considered carcinogenic by the National Toxicology Program (NTP) Report on Carcinogens and have not been found to be potential carcinogens in the International Agency for Research on Cancer (IARC) Monographs or found to be potential carcinogens by OSHA.

**Mutagenicity:** Product is not classified based on available data.

**Reproductive Toxicity:** Product is not classified based on available data.

**Specific Target Organ Toxicity – Single Exposure:** Product is not classified based on available data.

**Specific Organ Toxicity – Repeated Dose:** Product is not classified based on available data.

**Aspiration Hazard:** Product is not classified based on available data.

### SECTION 12- ECOLOGICAL INFORMATION

#### L-(+)-LACTIC ACID:

##### Ecotoxicity

Organism	Species	Test Results
Algae	EC50 (biomass), <i>Pseudokirchnerella subcapitata</i>	>2.8 g/L, 72h
Algae	EC50 (growth rate), <i>Pseudokirchnerella subcapitata</i>	3.5 g/L, 72h
Crustacea	EC50, <i>Daphnia magna</i>	130 mg/L, 48h
Fish	LC50, <i>Oncorhynchus mykiss</i>	130 mg/L, 96h
Fish	LC50, <i>Danio rerio</i>	320 mg/L, 96h
Microorganisms	EC50, Activated sludge	>88.2 mg/L, 3h

**Persistence / degradability:** Readily biodegradable.

**Bioaccumulative Potential:** Does not bioaccumulate.

Chemical Name	Log Pow	Bioconcentration factor (BCF)
L-(+)-Lactic Acid	-0.62	No data

**Mobility in soil** No information available.

**PBT and vPvB assessment** This substance is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

**Other Adverse Effects** No information available.

#### LAURAMINE OXIDE:

**Ecotoxicity:** Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Organism	Species	Test Results
Algae	EC50, <i>Pseudokirchnerella subcapitata</i>	0.19 mg/L, 72h
Crustacea	EC50, <i>Daphnia magna</i>	3.1 mg/L, 48h
Fish	LC50, <i>Danio rerio</i>	31.8 mg/L, 96h
Fish	LC50, <i>Pimephales promelas</i>	0.87 mg/L, 120d



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**Persistence and degradability:** Expected to be readily biodegradable.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

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### SECTION 13 – DISPOSAL CONSIDERATIONS

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**DISPOSAL METHOD: Rinse empty containers and recycle.** Dispose of unused product in a permitted hazardous waste management facility following all local, state, and federal regulations.

Follow label warnings, since containers may retain some residue of the product. Processing, use or contamination of this product may change the waste management options. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. State and local disposal regulations may differ from federal disposal regulations.

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### SECTION 14 – TRANSPORTATION INFORMATION

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**UN Number:** N.A.

**UN Proper Shipping Name:** N.A.

**DOT (Department of Transportation Proper Shipping Name):** Not regulated by DOT.

**Packaging Group:** N.A.

**TDG Classification:** Not Regulated

**IMDG Classification:** Not Regulated

**IATA Classification:** Passenger – Not Regulated

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### SECTION 15 – REGULATORY INFORMATION

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**FEDERAL REGULATIONS:**

**TSCA INVENTORY STATUS:** All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**SARA TITLE III SECTION 311/312 CATEGORY:**

IMMEDIATE (ACUTE) HEALTH HAZARD:	YES
DELAYED (CHRONIC) HEALTH HAZARD:	NO
FIRE HAZARD:	NO
SUDDEN RELEASE OF PRESSURE:	NO
REACTIVE HAZARD:	NO

**SARA SECTIONS 302/304/313/HAP:** NO

**INTERNATIONAL CHEMICAL INVENTORY STATUS:**

EUROPEAN UNION (EINECS)	YES
JAPAN (METI)	YES
AUSTRALIA (ACIS)	YES
KOREA (KECL)	YES
CANADA (DSL)	YES
CANADA (NDSL)	NO
PHILIPPINES	YES



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**STATES RIGHT TO KNOW:** California, New Jersey, Pennsylvania, Minnesota, Massachusetts, and Wisconsin. Complies with listed States Right to Know Acts.

The following statement is made in order to comply with the California State Drinking Water Act. California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer and/or to cause birth defects and other reproductive harm.

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### SECTION 16 – OTHER INFORMATION

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**Date of Revision:** 25-July-2023

Section 1: Update retail package sizes, Section 2: Update classification

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**NFPA:** 1, 0, 0. None

**Total VOC (wt. %):** 0% - does not include any CARB applicable exemptions (Volatile Organic Compounds)/California Air Resources board

**CLR CHEMICAL FATE INFORMATION:** 28-day biodegradation. The matter is readily biodegradable. OECD 301D

**Other Precautions:** None required.

**SDS ABBREVIATIONS:**

N. A.:	Not Applicable
N. D.:	Not Determined
N.E.:	Not Established
C:	Ceiling Limit
HAP:	Hazardous Air Pollutant
VOC:	Volatile Organic Compound

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