



SAFETY DATA SHEET

1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: CLR BRANDS® – CALCIUM, LIME & RUST REMOVER 2X STRONGER

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

Product Use: Aqueous Acidic Cleaner for Removal of Calcium, Lime, and Rust from Hard Surfaces

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

2 – HAZARDS IDENTIFICATION

COMPLIES WITH 29CFR 1900.1200 DATED MAY 2024.

CLASSIFICATION

Skin Corrosion, Category 1B
Eye Damage, Category 1

LABEL ELEMENTS



Signal Word Danger

Hazard statements Causes severe skin burns and eye damage.
Causes serious eye damage.

Precautionary statement(s)

Do not breathe mists or vapors.
Wash skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
Immediately call a Poison Center/doctor.



SAFETY DATA SHEET

Store locked up.

Keep out of reach of children.

Dispose of contents/container in accordance with all local, state, and federal regulations.

Hazard(s) not otherwise classified (HNOC)

DO NOT mix with other household cleaners or chemicals including bleach, as toxic fumes may result.

Unknown Acute Toxicity: Not applicable

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION: Mixtures

HAZARDOUS COMPONENTS:

<u>Component</u>	<u>CAS#</u>	<u>OSHA HAZARD</u>	<u>% by Weight</u>
1. Lactic Acid	79-33-4	YES	10.00-20.00
2. Methanesulfonic Acid	75-75-2	YES	5.00-10.00
3. Lauramine Oxide	1643-20-5	YES	1.00-5.00

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

SECTION 4 – FIRST AID MEASURES

FIRST AID MEASURES

EYE CONTACT: In case of eye contact, immediately rinse thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

SKIN CONTACT: In case of skin (or hair) contact, take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. If irritation persists, get medical advice/attention.

INHALATION: Not a significant route of exposure. Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: If swallowed, rinse mouth. DO NOT induce vomiting. Drink a glass of water followed with milk. Call POISON CENTER or doctor immediately. NEVER give an unconscious person anything to ingest.

MOST IMPORTANT SYMPTOMS AND EFFECTS: Causes severe skin burns and eye damage. Effects may vary depending on length of exposure, solution concentration. Symptoms may include stinging, redness, tearing, and blurred vision of the eyes. Skin contact may cause skin burns, redness, and discomfort. Accidental ingestion may result in oral burns, vomiting and gastrointestinal disturbance.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Provide general supportive measures and treat symptomatically. Provide SDS to physician. Symptoms may be delayed.



SAFETY DATA SHEET

SECTION 5 – FIRE FIGHTING MEASURES

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

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Hazardous Combustion Products: Carbon Monoxide, carbon dioxide, sulfur oxides. Thermal decomposition can lead to irritating gases and vapors.

Fire and Explosion Hazards: None known.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: 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.

SECTION 6 – ACCIDENTAL RELEASES MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Do not breathe mist or vapor. Use personal protective equipment, see Section 8. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Isolate area and deny entry to unnecessary and unprotected personnel.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:

Small Spill: Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Place in non-leaking containers. Flush spill area with water. Area may be slippery. Avoid direct discharge to sewers and surface waters. Dispose of absorbed material in accordance with local, state, and federal regulations.

Large Spill: Dam spill, and absorb with earth, sand or similar material. Place in non-leaking containers. Flush residue with large amount of water. Area may be slippery. Avoid direct discharge to sewers and surface waters. Dispose of collected material according to local, state, and federal regulations.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Do not get in eyes, on skin, or on clothing. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Do not breathe mist or vapor. Observe good industrial hygiene practices when handling this material. Do not eat, drink, or smoke in work area. Wash hands thoroughly after use. Avoid exposure to excess heat. **DO NOT MIX WITH OTHER HOUSEHOLD CLEANERS OR CHEMICALS INCLUDING BLEACH, AS TOXIC FUMES MAY RESULT.** Keep out of reach of children.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES: Store locked up. Store in original container in a secure area away from children and pets. Store in dry, cool, well-ventilated area, away from heat. Prevent from freezing. Keep containers tightly closed. Avoid contact with strong oxidizing agents, metals (except stainless steel and chrome), acids, bases, ethyl vinyl ether, and bleach. Avoid contact with combustible materials, wood, and organic materials.



SAFETY DATA SHEET

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

COMPONENT	OSHA	OSHA	ACGIH	ACGIH
	PEL	STEL/C	TWA	STEL/C
1. Lactic Acid	N.E.	N.E.	N.E.	N.E.
2. Methanesulfonic Acid	N.E.	N.E.	N.E.	N.E.
3. Lauramine Oxide	N.E.	N.E.	N.E.	N.E.

APPROPRIATE ENGINEERING CONTROLS: Use with adequate ventilation. Do not use in closed or confined spaces. Do not breathe vapor or mists of this product. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If occupational exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

PERSONAL PROTECTIVE EQUIPMENT

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: 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 hands thoroughly after use or handling. Routinely wash work clothing and protective equipment to remove contaminants. Use good industrial hygiene practices when handling this product. Do not eat, drink, or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Liquid
Color:	Orange
Odor/odor threshold:	Acidic
Melting point/freezing point:	N.D.
Boiling point (or initial boiling point or boiling range):	N.D.
Flammability:	Not Flammable
Lower and upper explosion limit/flammability limit:	N.A.
Flash point:	N.D.
Auto-ignition temperature:	N.D.
Decomposition temperature:	N.D.
pH:	0.4
Kinematic viscosity:	N.D.



SAFETY DATA SHEET

Solubility:	N.D.
Partition coefficient n-octanol/water:	N.D.
Vapor pressure/evaporation rate (Pascal):	N.D.
Density and/or relative density:	N.D.
Relative vapor density:	N.D.
Particle characteristics:	N.A.

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY: No hazardous reactions if stored and handled as prescribed/indicated.

CHEMICAL STABILITY: Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: None known.

CONDITIONS TO AVOID: Avoid elevated temperatures. **DO NOT MIX WITH OTHER HOUSEHOLD CLEANERS OR CHEMICALS INCLUDING BLEACH, AS TOXIC FUMES MAY RESULT.**

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

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can lead to release of acid fumes, sulfur oxides and carbon oxides. In the event of fire: see Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

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

Eyes: May cause serious eye damage. Effects may vary depending on length of exposure and/or solution concentration.

Skin: May cause severe skin burns. Effects may vary depending on length of exposure and/or solution concentration.

Inhalation: No adverse effects expected under typical use conditions.

Ingestion: No adverse effects expected under typical use conditions.

Symptoms: May cause severe skin burns and eye damage. Effects may vary depending on length of exposure, solution concentration. Symptoms may include stinging, redness, tearing, and blurred vision of the eyes. Skin contact may cause skin burns, redness, and discomfort. Accidental ingestion may result in oral burns, vomiting and gastrointestinal disturbance.

Information on Toxicological Effects:

Numerical Measures of Toxicity:

Constituent	Oral LD50	Dermal LD50	Inhalation LC50
Lactic Acid	3,543 mg/kg (rat)	> 2,000 mg/kg (rabbit)	>7.94 mg/L (rat, 4h, aerosol)
Methanesulfonic Acid	649 mg/kg (rat)	>1,000 - <2,000 mg/kg (rabbit)	No data
Lauramine Oxide	1,064 mg/kg (rat)	> 2,000 mg/kg (rat)	No data
Product Acute Toxicity Estimate	>5,000 mg/kg	>5,000 mg/kg	Not assessed



SAFETY DATA SHEET

Delayed and Immediate Effects and Chronic Effects from Short- and Long-Term Exposure:

Eye Irritation: Causes serious eye damage (GHS Category 1).

Skin Irritation: Causes severe skin burns (GHS Category 1B).

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

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

Carcinogenicity: This product does not contain any substances at greater than 0.1% (w/w) 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 Target Organ Toxicity – Repeated Exposure: Product is not classified based on available data.

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

SECTION 12- ECOLOGICAL INFORMATION

Ecotoxicity:

Constituent	Organism and Species	Results
Lactic Acid	Fish (<i>Oncorhynchus mykiss</i>)	96h LC50: 130 mg/L
	Crustacea (<i>Daphnia magna</i>)	48h EC50: 130 mg/L
	Algae (<i>Pseudokirchnerella subcapitata</i>)	72h EC50: 3.5 g/L (growth rate)
	Microorganisms (Activated Sludge)	3h EC50: >88.2 mg/L
Methanesulfonic Acid	Fish (<i>Oncorhynchus mykiss</i>)	96h LC50: 73 mg/L
	Crustacea (<i>Daphnia magna</i>)	48h EC50: 70 mg/L
	Algae (<i>Raphidocelis subcapitata</i>)	72h EC50: ≥ 12 - < 24 mg/L (growth rate)
	Microorganisms (Activated Sludge)	30 min EC50: >1,000 mg/L
Lauramine Oxide	Fish (<i>Danio rerio</i>)	96h LC50: 31.8 mg/L
	Fish (<i>Pimephales promelas</i>)	120d LC50: 0.87 mg/L
	Crustacea (<i>Daphnia magna</i>)	48h EC50: 3.9 mg/L
	Crustacea (<i>Daphnia magna</i>)	21d LC50: 0.96 mg/L
	Algae (<i>Pseudokirchnerella subcapitata</i>)	72h EC50: 0.20 mg/L
	Microorganisms (<i>Pseudomonas putida</i>)	18h EC10: 24 mg/L

Persistence / Degradability:

Constituent	Results
Lactic Acid	Readily biodegradable: 75% (OECD 301B)
Methanesulfonic Acid	Readily biodegradable: >90% (OECD 301A)
Lauramine Oxide	Readily biodegradable: 95.3% (OECD 301B)



SAFETY DATA SHEET

Bioaccumulative Potential:

Constituent	Log Pow	Bioconcentration Factor (BCF)
Lactic Acid	-0.54	No data
Methanesulfonic acid	-2.38	No data
Lauramine Oxide	1.85 @ 20 °C	No data

Mobility in soil: No information available.

PBT and vPvB assessment: Not considered to be PBT or vPvB.

Other Adverse Effects: No information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

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

CONTAMINATED PACKAGING: Follow label warnings, since containers may retain some residue of the product.

SECTION 14 – TRANSPORTATION INFORMATION

DOT (Department of Transportation) (Land Transport):

Hazard Class/Label: 8

Packaging Group: II

UN Number: 3265.

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains METHANESULFONIC ACID)

IMDG (Marine Transport):

Hazard Class/Label: 8

Packaging Group: II

UN Number: 3265

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains METHANESULFONIC ACID)

Marine Pollutant: No

IATA (Air Transport):

Hazard Class/Label: 8

Packaging Group: II

UN Number: 3265

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains METHANESULFONIC ACID)



SAFETY DATA SHEET

SECTION 15 – REGULATORY INFORMATION

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

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: Based on an evaluation of the product's composition and the use(s), this product does not require a California Proposition 65 Warning.

SECTION 16 – OTHER INFORMATION

Date of Issue: 31-October-2025.

Updated the listed color of the product.

Total VOC (wt. %): <0.1% - does not include any CARB applicable exemptions (Volatile Organic Compounds/California Air Resources Board)

SDS ABBREVIATIONS:	ACGIH:	American Conference of Governmental Industrial Hygienists
	C:	Ceiling Limit
	EC50:	Effective Concentration to 50% of a test population
	HAP:	Hazardous Air Pollutant
	IATA:	International Air Transport Association
	IMDG:	International Maritime Dangerous Goods
	LC50:	Lethal Concentration to 50% of a test population
	LD50:	Lethal Dose to 50% of a test population
	N.A.:	Not Applicable
	N.D.:	Not Determined
	N.E.:	Not Established
	NIOSH:	National Institute for Occupational Safety & Health
	OECD:	Organisation for Economic Cooperation and Development
	PBT:	Persistent, Bioaccumulative and Toxic
	PEL:	Permissible Exposure Limits
	STEL:	Short-Term Exposure Limit
	TSCA:	Toxic Substances Control Act
	TWA:	Time-Weighted Average
	UN:	United Nations
	vPvB:	Very Persistent and Very Bioaccumulative



SAFETY DATA SHEET

VOC: Volatile Organic Compound

Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, JELMAR offers no representations as to the completeness or accuracy thereof. Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will JELMAR be responsible for damages of any nature whatsoever resulting from use of or reliance upon said information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION HEREIN REFERS.