



PROFESSIONAL CLEANING PRODUCTS

SAFETY DATA SHEET

1 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	CLR PRO® CALCIUM, LIME & RUST REMOVER
Other Means of Identification:	G-CFM-CLR32-6PRO, G-CFM-CLR42-6PRO, G-CFM-CLR128-4PRO, G-CFM-CLR-5PRO, G-CFM-CLR-55PRO, G-CFM-CLR-275PRO
Product Use:	Aqueous Acidic Cleaner for Removal of Calcium, Lime, and Rust from Hard Surfaces for Facilities Management. Commercial Packages: (946 mL, 1.24, 3.79, 18.92, 208.20, 1041 liters)
Restrictions on Use:	Incompatible with strong oxidizing agents, metals (except stainless steel, chrome, aluminum, brass and copper), acids, bases, and bleach. For Commercial and Industrial Use Only.

Manufacturer/Importer/Supplier/Distributor Information

Canadian Distributor:	Advantage Maintenance Products Ltd. 105 Scott Ave. Paris, ON N3L 3K4 519-442-7881	Manufacturer:	Jelmar, LLC 5550 W. Touhy Ave. Skokie, IL 60077 USA +1 847 675-8400
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Emergency Phone Number: +1(800) 323-5497 (USA) 8:30 A.M. – 4:30 P.M. Central Time (CT) Monday – Friday (English only)

Emergency 24-hour Contact: Chemtrec +1(800) 424-9300 (English and French)

2 – HAZARDS IDENTIFICATION

CLASSIFICATION (according to the Canadian Hazardous Products Regulation)

Skin Irritation, Category 2
Eye Irritation, Category 2A

LABEL ELEMENTS

Symbols



Signal Word

Warning

Hazard statement(s)

Causes serious eye irritation
Causes skin irritation



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Precautionary statement(s)

Wear protective gloves and eye protection/face protection.
 Wash skin thoroughly after handling.
 Take off contaminated clothing and wash it before reuse.
 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.
 IF ON SKIN: Wash with plenty of soap and water.
 If skin irritation or rash occurs: Get medical advice/attention.
 Call a POISON CENTER or doctor/physician if you feel unwell.
 DO NOT mix with other household cleaners or chemicals including bleach, as toxic fumes may result.

KEEP OUT OF REACH OF CHILDREN

Other hazards

None known

SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

<u>Chemical/Common Name</u>	<u>CAS#</u>	<u>% by Weight</u>
1. Lactic Acid	79-33-4	10 – 20
2. Lauramine Oxide	1643-20-5	1 – 5

The exact percentages (concentration) of the above listed chemicals are being withheld as a trade secret.

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.

SKIN CONTACT: In case of skin contact, immediately rinse thoroughly with water 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: If swallowed, 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.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Symptoms may not appear immediately. If you feel unwell, seek medical advice and show the label or SDS where possible. Treat symptomatically.



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SECTION 5 – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Not flammable. Use appropriate media for area.

UNSUITABLE EXTINGUISHING MEDIA: None known.

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

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.

FIRE AND EXPLOSION HAZARDS: None known.

SECTION 6 – ACCIDENTAL RELEASES MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Avoid contact with skin and eyes. Avoid breathing vapors or mist. For small spills, wear rubber gloves. For large spills, wear safety goggles and rubber gloves with protective cuffs. See Section 8 for further information. Isolate area and deny entry to unnecessary and unprotected personnel.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Small Spill: No special clean-up procedure is necessary for small (less than 1 gallon/3.79 liter) spills. Flush spill area with water. Area may be slippery.

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, province, and federal regulations.

SECTION 7- HANDLING AND STORAGE

PRECAUTIONS FOR SAFE 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. The containers (1, 5, and 55 gallons or 3.79, 18.92 and 208.20 liters) 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.**

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: 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.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS: This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

APPROPRIATE ENGINEERING CONTROLS: Avoid prolonged breathing of vapor or mists of this product. Use with adequate ventilation. Do not use in closed or confined spaces.



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PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: 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: 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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, lime-green liquid	Flammability:	Not Flammable
Odor: Slightly acidic	Upper/Lower Flammability	N.A.
Odor Threshold: N.D.	Vapor Pressure:	N.D.
pH: @20°C 2.10-2.30	Vapor Density (mm Hg):	N.D.
Melting Point: N.D.	Relative Density @20°C:	1.040 – 1.060
Freezing Point: N.D.	Solubility in water:	100%
Boiling Point: 99°C	Partition Coefficient;	N.D.
Boiling Point Range: N.A.	n-octanol/water	
Flash Point: None	Auto Ignition Temperature:	N.A.
Evaporation Rate: N.D.	Decomposition Temperature:	N.A.
	Viscosity:	N.D.

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, chrome, aluminum, brass and copper), 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.

SECTION 11 – TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Eyes, Skin, Inhalation, Ingestion.



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- Eyes** Irritant: avoid eye contact. Effects may vary depending on length of exposure, 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.

SYMPTOMS: Eye and skin irritation. Effects may vary depending on length of exposure, solution concentration.

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)
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

DELAYED AND IMMEDIATE EFFECTS AND CHRONIC EFFECTS FROM SHORT-TERM AND LONG-TERM EXPOSURE:

- Eye Irritation:** Eye irritant. Effects may vary depending on length of exposure, solution concentration.
- Skin Irritation:** Skin irritant. Effects may vary depending on length of exposure, solution concentration.
- 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 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 the U.S. Occupational Safety and Health Administration.
- 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

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



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Constituent	Organism and Species	Results
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)
Lauramine Oxide	Readily biodegradable: 95.3% (OECD 301B)

Bioaccumulative Potential:

Constituent	Log Pow	Bioconcentration Factor (BCF)
Lactic Acid	-0.54	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. Dispose of unused product in a permitted hazardous waste management facility following all local, province, 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. Province and local disposal regulations may differ from federal disposal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

UN Number: N.A.

UN Proper Shipping Name: N.A.

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

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
UNITED STATES (TSCA)	YES

SECTION 16 – OTHER INFORMATION

Issue Date: 11-January-2024

Date of Last Revision: N.A.

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

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

SDS ABBREVIATIONS:	EC50:	Effective Concentration to 50% of a test population
	IATA:	International Maritime Dangerous Goods
	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
	UN:	United Nations
	vPvB:	Very Persistent and Very Bioaccumulative
	VOC:	Volatile Organic Compound

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