



SAFETY DATA SHEET

1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name CLR PRO MAX® INDUSTRIAL DESCALER

Product Use Aqueous Acidic Cleaner for Removal of Calcium, Lime, and Rust from Hard Surfaces
Commercial Packages: (1, 5, 55, 275 gallons)

Restriction on Use: Incompatible with strong oxidizing agents, bleach, acids, bases, ethyl vinyl ether.
For Commercial and Industrial Use Only.

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

CLASSIFICATION (according to 29 CFR 1900.1200)

GHS Classification:	Product AT USE DILUTION Skin Corrosion, Category 1B Eye Damage, Category 1	Product AS SOLD Corrosive to metals, Category 1 Skin Corrosion, Category 1B Eye Damage, Category 1 Specific Target Organ Toxicity (Single Exposure), Category 3
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LABEL ELEMENTS

Symbol:	Product AT USE DILUTION 	Product AS SOLD 
Signal Word:	Danger	Danger
Hazard statements:	Causes severe skin burns and eye damage.	Causes severe skin burns and eye damage. May cause respiratory irritation. May be corrosive to metals.
Precautionary statement(s):	Do not breathe mists or vapors. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection.	Do not breathe mists or vapors. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area.



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	<p>Wash skin thoroughly after handling. Wash contaminated clothing before reuse. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do NOT induce vomiting. Store locked up. Keep out of reach of children. Dispose of contents/container in accordance with local/regional/national/international regulations.</p>	<p>Wear protective gloves/protective clothing/eye protection/face protection. Wash skin thoroughly after handling. Wash contaminated clothing before reuse. Keep only in original container. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do NOT induce vomiting. Keep container tightly closed. Store in a well-ventilated place. Store in corrosive resistant container with a resistant inner liner. Store locked up. Keep out of reach of children. Absorb spillage to prevent material damage. Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
<p>Hazard(s) not otherwise classified (HNOC):</p>	<p>DO NOT mix with bleach or other household chemicals; harmful fumes may result.</p>	<p>DO NOT mix with bleach or other household chemicals; harmful fumes may result.</p>

Unknown Acute Toxicity: Not applicable.

SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Product AS SOLD

<u>Component</u>	<u>CAS#</u>	<u>OSHA HAZARD</u>	<u>% by Weight</u>
Methanesulfonic acid	75-75-2	YES	20 - 30



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Product AT USE DILUTION

<u>Component</u>	<u>CAS#</u>	<u>OSHA HAZARD</u>	<u>% by Weight</u>
Methanesulfonic acid	75-75-2	YES	10 - <20

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: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

SKIN CONTACT: If on skin (or hair): Take off immediately all contaminated clothing. Rinse with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center/doctor.

INHALATION: If inhaled: Remove person to fresh air and keep comfortable for breathing. Seek medical attention.

INGESTION: If swallowed: Do NOT induce vomiting. Rinse mouth and then drink 8-12 ounces of water. NEVER give an unconscious person anything to ingest. Immediately call a poison center/doctor.

MOST IMPORTANT SYMPTOMS AND EFFECTS: Causes burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, redness, swelling, tearing, and blurred vision. Could result in permanent eye damage, including blindness. May cause irritation to the respiratory tract.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Provide general supportive measures and treat symptomatically. Provide SDS to physician. Symptoms may be delayed. No known specific antidote.

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. Contaminated extinguishing water must be disposed of in accordance with local, state and federal regulations.

SECTION 6 – ACCIDENTAL RELEASES MEASURES



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PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Do not get in eyes, on skin, or on clothing. Do not breathe mist or vapor. Ensure adequate ventilation. Use personal protective equipment, see Section 8. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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). Flush residue 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 pump off product. Absorb remainder with earth, sand, sawdust 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 in accordance with local, state, and federal regulations.

ENVIRONMENTAL PRECAUTIONS: Do not discharge into drains/surface waters/groundwater.

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 vapors or mist. Observe good industrial hygiene practices when handling this material. Do not eat, drink, or smoke in work area. Wash hands thoroughly after use. **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 INCOMPATIBILITIES: Store locked up. Store in original containers in a secure area away from children and pets. Store in dry, cool, well-ventilated area, away from heat. Protect from temperatures above 140 °F / 60 °C. Keep containers tightly closed. Avoid contact with strong oxidizing agents, bleach, acids, bases, ethyl vinyl ether (see Section 10). Store in corrosive resistant container with a resistant inner liner.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

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>
Methanesulfonic acid	N.E.	N.E.	N.E.	N.E.

APPROPRIATE ENGINEERING CONTROLS: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Do not use in closed or confined spaces. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If 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: 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.



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Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of product.

EYE PROTECTION: Wear chemical goggles. Wear face protection if the potential for splashing exists. Do not wear contact lenses. Emergency responders should wear full eye and face protection.

SKIN PROTECTION: Wear rubber gloves with protective cuff. Emergency responders should wear impermeable gloves.

OTHER PROTECTION: Wear appropriate chemical resistant clothing. 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. Routinely wash work clothing and protective equipment to remove contaminants. Use good industrial hygiene practices when handling this material. Do not eat, drink, or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid
Color:	Orange
Odor/odor threshold:	Slightly acidic
Melting point/freezing point:	-38.3°C/-36.9°F
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.A.
Decomposition temperature:	N.A.
pH:	<1
Kinematic viscosity:	N.D.
Solubility:	Soluble
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: This product is stable if stored and handled as prescribed/indicated.

POSSIBILITY OF HAZARDOUS REACTIONS: None known.

CONDITIONS TO AVOID: Avoid elevated temperatures. **DO NOT MIX WITH BLEACH, OR ANY OTHER PRODUCTS, AS TOXIC FUMES MAY RESULT.**

INCOMPATIBLE MATERIALS: Strong oxidizing agents, bleach, acids, bases, ethyl vinyl ether.

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.



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SECTION 11 – TOXICOLOGICAL INFORMATION

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

Eyes: Causes serious eye damage.

Skin: Causes severe skin burns.

Inhalation: May cause irritation to the respiratory tract.

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

Symptoms: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, redness, swelling, tearing, and blurred vision. Could result in permanent eye damage, including blindness. May cause irritation to the respiratory tract.

Information on Toxicological Effects:

Numerical Measures of Toxicity:

LD₅₀ Acute Oral Toxicity: Methanesulfonic acid: 649 mg/kg (rat)

LD₅₀ Acute Dermal Toxicity: Methanesulfonic acid: > 1,000 - < 2,000 mg/kg (rabbit)

LC₅₀ Acute Inhalation Toxicity: Methanesulfonic acid: no data available

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

Eye Irritation: Corrosive – causes serious eye damage.

Skin Irritation: Corrosive – causes severe skin burns.

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 AS SOLD may cause respiratory irritation. Product AT USE DILUTION 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

Methanesulfonic acid (CAS 75-75-2):

Ecotoxicity

Organism	Species	Test Results
Algae	EC50 (growth rate), <i>Raphidocelis subcapitata</i>	≥ 12 - < 24 mg/L, 72h
Crustacea	EC50, <i>Daphnia magna</i>	70 mg/L, 48h
Fish	LC50, <i>Oncorhynchus mykiss</i>	73 mg/L, 96h
Microorganisms	EC50, Activated sludge	>1,000 mg/L, 30min



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Persistence / degradability: Readily biodegradable (>90%, OECD 301A).

Bioaccumulative Potential: Does not bioaccumulate.

<u>Chemical Name</u>	<u>Log Pow</u>	<u>Bioconcentration factor (BCF)</u>
Methanesulfonic acid	-2.38	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.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: 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: UN3265

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: UN3265

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: UN3265

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



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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 TITTLE III SECTION 311/312 CATEGORY:

IMMEDIATE (ACUTE) HEALTH HAZARARD:	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:

New Jersey: Methanesulfonic acid (CAS 75-75-2); Glycol ether (trade secret)
Pennsylvania: Glycol ether (trade secret)

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 Revision: 22-December-2024

Minor editorial changes and minor changes to Sections 14.

Total VOC (wt. %): 0% - 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
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
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limits
STEL:	Short-Term Exposure Limit
TSCA:	Toxic Substances Control Act
TWA:	Time-Weighted Average
UN:	United Nations



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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.

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