

**JELMAR**  
**MATERIAL SAFETY DATA SHEET**  
**CLR - CALCIUM LIME & RUST REMOVER**

EFFECTIVE DATE: 3/01

This Material Safety Data Sheet is being provided to your company for the purpose of providing current health and safety information to your management and employees who work or may be exposed to this product. Please read the data provided and then provide it to those people at your company who have the responsibility to insure compliance with both Federal and State Right to Know regulations, and to those employees that request information on this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology and fire protection as necessary and/or appropriate to use and understand the data contained in this MSDS.

Federal Regulations: Parts 29 and 42 Code of Federal Regulations  
State of Illinois: Public Act 83-240

**SECTION 1 - PRODUCT IDENTIFICATION**

**Manufacturer:** Jelmar  
**Address:** 5550 W. Touhy Ave., Ste. 200  
Skokie, IL 60077  
**Emergency Phone Number:** (847) 675-8400  
**Emergency Contact:** Chemtrec (800) 424-9300

**Chemical Name:** N/A  
**Chemical Family:** Aqueous Acidic Solution  
**Formula:** N/A- Mixture  
**Common Name:** CLR  
**Hazard Classification:** Non-Hazardous  
**DOT Classification:** Non-Hazardous (ORM-D)  
**NFPA Rating System:** Health-1/Flammability-1/Reactivity-0

**SECTION 2 - COMPOSITION INFORMATION**

Component	CAS#	PEL/TLV	Percentage
1. Water	7732-18-5	NE	68-74
2. Glycolic Acid	79-14-1	NE	13-16
3. Sulfamic Acid	5329-14-6	NE	3-6
4. Disodium Caprylo- amphodipropionate	68815-55-4	NE	4-7
5. Ethylene Glycol n-Butyl Ether	111-76-2	20 ppm TLV	1-4
6. Citric Acid	77-92-9	NE	1-4
ND = Not Determined		NE = Not Established	

This product is a mixture for which no health hazard data exist. The hazard communication standard requires that such mixtures be assumed to present the same health hazard as do the components that constitute at least 1% of the mixture (0.1% for carcinogens) although OSHA has noted that the hazards of the individual components may be altered by including them in a mixture. Components of this product that are listed are present in quantities as defined in OSHA 29 CFR 1910.1200

**REGULATORY INFORMATION**

**FEDERAL/NATIONAL:**

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right To Know Act of 1986, as amended, and of 40 CFR 372 (for SARA 313): Glycolic Acid, Glycol Ethers

CERCLA requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product which would require reporting under this statute are: Glycolic Acid

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(Regulatory Information continued)

The following components of this product are listed as extremely hazardous substances in 40 CFR Part 355 and are present at levels which could require reporting and emergency planning (SARA Title III Sections 302 & 304):

Glycol Ethers

SARA Title III Sections 311 and 312:

Delayed Hazard:	No
Fire Hazard:	No
Immediate Health Hazard:	Yes (irritant)
Reactive Hazard:	No
Sudden Release or Pressure Hazard:	No

National VOC Emissions Standards for Consumer Products: (40 CFR Parts 9 & 59)

Category: Non Applicable

STATE/LOCAL:

New Jersey: NJ Hazardous Substance = or > 1.0%: Ethylene Glycol n-Butyl Ether

Pennsylvania: PA Hazardous Substance = or > 1.0%: Ethylene Glycol n-Butyl Ether

California:

Prop. 65: Not Listed

Cal Air Resources Board Classification: Not listed

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**SECTION 3 - PHYSICAL DATA**

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<b>Boiling point:</b>	100° C	<b>Specific Gravity:</b>	1.07 – 1.08
<b>Vapor Pressure:</b>	ND	<b>Percent Volatiles:</b>	80.3%
<b>Vapor Density:</b>	ND	<b>Evaporation Rate:</b>	< 1
<b>pH:</b>	.7 - .9		(n-ethyl acetate=1)
<b>Solubility in Water:</b>	Yes	<b>Biodegradability:</b>	Yes
<b>Appearance, Color &amp; Odor:</b>	Clear, green colored liquid, acidic aroma		

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**SECTION 4 - FIRE AND EXPLOSION DATA**

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**Flash Point:** <130° C (Method: TCC)

**Extinguishing Media:** Water, Carbon Dioxide, Dry Chemical or Foam

**Special Fire Fighting Procedures:** None

**Unusual Fire & Explosion Hazards:** None Expected

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**SECTION 5 - HEALTH HAZARD DATA**

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**EFFECTS OF OVEREXPOSURE:**

**Eyes:** Can cause eye corrosion with ulceration

**Skin:** May cause irritation with discomfort or rash, prolonged skin contact may cause ulceration

**Inhalation:** Excessive inhalation may cause irritation of the respiratory passages

**Ingestion:** May cause irritation of the gastrointestinal tract with abdominal pain, nausea, vomiting and diarrhea and corrosion of the mucous membranes.

**EMERGENCY FIRST AID PROCEDURES:**

**Eye Contact:** Immediately flush with water for at least 15 minutes. Contact physician.

**Skin Contact:** Immediately flush with water for at least 15 minutes. Contact physician.

**Inhalation:** Remove to fresh air immediately. If not breathing give artificial respiration. Contact physician.

**Ingestion:** DO NOT INDUCE VOMITING. Give large quantities of water. Contact physician.

**Medical Conditions Aggravated by Exposure:** None Expected.

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**SECTION 6 - REACTIVITY DATA**

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**Stability:** Stable  
**Incompatibility:** Strong bases  
**Hazardous Decomposition Products:** Will not decompose, thermal decomposition products may include toxic oxides or carbon.  
**Hazardous Polymerization:** Will Not Occur

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**SECTION 7 - SPILL OR LEAK PROCEDURES**

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**Steps to be Taken in Case Material is Released or Spilled:** No special clean up is necessary for small (less than 1 gallon) spills. Rinse area with water. For larger spills, dam the spill and adsorb material with earth, sand or similar inert material. May be carefully neutralized with lime or soda ash. Place adsorbed material in suitable containers and discard solid waste in accordance with federal, state and local regulations. After removal of the contaminated adsorbent, flush spill area with water.

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**SECTION 8 - SPECIAL PROTECTION**

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**Respiratory Protection:** Not required during normal usage.  
**Ventilation:** General room ventilation is normally adequate.  
**Protective Gloves:** Wear plastic or rubber gloves.  
**Eye Protection:** Not required during normal usage.  
**Other Protective Equipment:** None required during normal usage

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**SECTION 9 - SPECIAL PRECAUTIONS OR COMMENTS**

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**Precautions to be Taken in Handling & Storing:** Avoid exposure to excessive heat and prevent from freezing.  
**Other Precautions:** None required.

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