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

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 with 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.

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

**SECTION 1 - PRODUCT IDENTIFICATION**

Manufacturer: Jalmor  
Address: 6800 N. Lincoln Avenue  
Lincolnwood, IL 60845

Emergency Phone Number: (708) 675-8400  
Emergency Contact: Chemtrac (800) 424-9300

Chemical Family: Acidic aqueous cleaning solution  
Formula: N/A  
Hazard Classification: Non Hazardous Liquid  
NFPA Rating System: Health-2/Flammability-0/Reactivity-0

**SECTION 2 - HAZARDOUS COMPONENTS**

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.

Some ingredients of this mixture are also a mixture whose complete composition is a trade secret.

Components of this product that are listed as Hazardous Materials and/or present in quantities as defined in OSHA 29 CFR 1910.1200

Ingredient	CAS#	PEL/TLV	%
Phosphoric Acid	7664-38-2	1mg/m3	12 - 13
Sulfuric Acid	78-14-1	NE	4 - 5
Aromatic Phosphate Ester - Proprietary Trade Secret			1 - 2

NE = Not Established

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 and of 40 CFR 372 (for SARA 313): Phosphoric Acid (CAS# 7664-38-2)

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 at a level which could require reporting under this statute are: Phosphoric Acid (CAS# 7664-38-2)

**SECTION 3 - PHYSICAL DATA**

Boiling point:	>200 F	Specific Gravity:	1.1 - 1.4
Vapor Pressure:	ND	Percent Volatiles:	80%
Vapor Density:	ND	Evaporation Rate:	> 1 (n-butyl acetate=1)
Solubility in Water:	Soluble	Appearance & Odor:	Light green liquid, very slight odor

**SECTION 4 - FIRE AND EXPLOSION DATA**

Flash Point (Method): Not Applicable  
Extinguishing Media: Water, carbon dioxide, dry chemical or foam, Class A, BC or ABC Fire extinguisher.  
Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting fires.  
Unusual Fire & Explosion Hazards: Burning may emit oxides of nitrogen, phosphorus and carbon.

**SECTION 5 - HEALTH HAZARD DATA**

**TLV:** Not Established  
**EFFECTS OF OVEREXPOSURE:**  
**Eyes:** Can cause irritation.  
**Skin:** No adverse effects expected during normal usage, can cause irritation and redness.  
**Inhalation:** Not a significant route of exposure.  
**Ingestion:** Not a significant route of exposure, will cause irritation to mucous membranes, stomach discomfort & nausea.

**EMERGENCY FIRST AID PROCEDURES:**

**Inhalation:** Remove to fresh air.  
**Eye Contact:** Flush eyes with water, get medical attention if irritation persists.  
**Ingestion:** Administer lukewarm water (pint) - If large quantities ingested, DO NOT INDUCE VOMITING, call a physician.  
**Skin Contact:** No treatment is necessary under ordinary circumstances. If skin is irritated, wash with soap and water, contact physician if irritation persists.  
**Medical Conditions Aggravated by Exposure:** None Expected.

**SECTION 6 - REACTIVITY DATA**

**Stability:** Stable  
**Incompatibility:** Strong oxidizing agents and alkalis.  
**Hazardous Decomposition Products:** Plastic containers when burned will emit carbon monoxide, carbon dioxide, aldehydes and other decomposition products.  
**Hazardous Polymerization:** Will Not Occur

**SECTION 7 - SPILL OR LEAK PROCEDURES**

**Steps to be Taken in Case Material is Released or Spilled:** No special clean-up procedure is necessary for small (less than 1 gallon) spills. For larger spills, dam spill and absorb with earth, sand or similar material. Flush spill area with water.  
**Waste Disposal Method:** Dispose solid waste in accordance with all local, state and federal regulations.

**SECTION 8 - SPECIAL PROTECTION**

**Respiratory Protection:** Not required during normal usage.  
**Ventilation:** General room ventilation is normally adequate.  
**Protective Gloves:** Not required during normal usage, however, use plastic or rubber gloves if product is used in area where rinse water is not readily available.  
**Eye Protection:** Not required during normal usage.  
**Other Protective Equipment:** None required in normal usage but remember product is acidic and always wash hands after use.

**SECTION 9 - SPECIAL PRECAUTIONS OR COMMENTS**

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

**OTHER REGULATORY REQUIREMENTS**

**TSCA Inventory Status:** Phosphoric Acid  
**California Prop. 65:** NA

**Revision Date:** JANUARY, 1995

**Prepared by:** F. J. Goldberg

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