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Material Safety Data Sheet

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SECTION I - Material Identity

Item Name	
Part Number/Trade Name	CLR-CALCIUM LIME & RUST REMOVER
National Stock Number	685000N062922
CAGE Code	9X051
Part Number Indicator	A
MSDS Number	182243
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	JELMAR
Street	6600 N LINCOLN AVENUE
City	LINCOLNWOOD
State	IL
Country	US
Zip Code	60645
Emergency Phone	800-424-9300 (CHEMTREC)
Information Phone	708-675-8400

MSDS Preparer's Information

MSDS Preparer Name	FJ GOLDBERG
Date MSDS Prepared/Revised	01JAN95
Date of Technical Review	25AUG95
Active Indicator	N

Alternate Vendors

Vendor #5 CAGE	BYVHS
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SECTION III - Physical/Chemical Characteristics

Appearance/Odor	LIGHT GREEN LIQUID, VERY SLIGHT ODOR
Boiling Point	>200F, >93C
Melting Point	N/K
Vapor Pressure	N/K
Vapor Density	N/K
Specific Gravity	1.4
Decomposition Temperature	N/K
Evaporation Rate	>1 (N-ETHYL ACETATE=1)
Solubility in Water	SOLUBLE
Percent Volatiles by Volume	80
Chemical pH	N/K
Corrosion Rate	N/K
Container Pressure Code	4
Temperature Code	8
Product State Code	U

SECTION IV - Fire and Explosion Hazard Data

Flash Point Method	UNK
Lower Explosion Limit	N/K
Upper Explosion Limit	N/K
Extinguishing Media	WATER, CARBON DIOXIDE, DRY CHEMICAL OR FOAM, CLASS A, BC OR ABC FIRE EXTINGUISHERS
Special Fire Fighting Procedures	WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N)
Unusual Fire/Explosion Hazards	BURNING MAY EMIT OXIDES OF NITROGEN, PHOSPHORUS AND CARBON

SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	NONE SPECIFIED BY MANUFACTURER
Materials to Avoid	STRONG OXIDIZING AGENTS & ALKALIES
Hazardous Decomposition Products	PLASTIC CNTNRS WHEN BURNED WILL EMIT CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES AND OTHER DECOMP PRODUCTS
Hazardous Polymerization	NO
Polymerization Conditions to Avoid	NOT RELEVANT
LD50 - LD50 Mixture	NONE SPECIFIED BY MANUFACTURER

SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	NO
Route of Entry: Inhalation	YES
Health Hazards - Acute and Chronic	EYES: CAN CAUSE IRRITATION. SKIN: NO ADVERSE EFFECTS EXPECTED DURING NORMAL USAGE, CAN CAUSE IRRITATION AND REDNESS. INGEST: NOT SIGNIFICANT ROUTE OF EXPOSURE, WILL CAUSE IRRITATION OF MUCOUS MEMBRANES, STOMACH DISCOMFORT & NAUSEA
Carcinogenity: NTP	NO
Carcinogenity: IARC	NO
Carcinogenity: OSHA	NO
Explanation of Carcinogenity	NOT RELEVANT
Symptoms of Overexposure	SEE HEALTH HAZARDS
Medical Cond. Aggrevated by Exposure	NONE EXPECTED
Emergency/First Aid Procedures	INHAL: REMOVE TO FRESH AIR. EYE: FLUSH W/WATER, GET MED ATTN IF IRRIT PERSISTS. INGEST: ADMIN LUKEWARM WATER (PINT) -IF LGE QTYS INGESTED, DO NOT INDUCE VOMITING, CALL MD. SKIN: NO TREATMENT IS NECESSARY UNDER ORDINARY CIRCUMSTANCES. IF SKIN IS IRRIT, WASH W/SOAP & WATER. CONTACT MD IF IRRIT PERSISTS

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	NO SPECIAL CLEAN-UP PROCEDURE IS NEC FOR SMALL (<1 GALLON) SPILLS. FOR LRGR SPILLS, DAM SPILL & ABSORB WITH EARTH, SAND OR SIMILAR MATL. FLUSH SPILL AREA W/WATER
Neutralizing Agent	NONE SPECIFIED BY MANUFACTURER
Waste Disposal Method	DISPOSE SOLID WASTE IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS
Handling and Storage Precautions	AVOID EXPOSURE TO EXCESSIVE HEAT AND PREVENTFROM FREEZING
Other Precautions	NONE REQUIRED

SECTION VIII - Control Measures

Respiratory Protection	NOT REQUIRED UNDER NORMAL USAGE. USE NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN(FP N)
Ventilation	GENERAL ROOM VENTILATION IS NORMALLY ADEQUATE
Protective Gloves	PLASTIC/RUBBER GLOVES
Eye Protection	ANSI APPRVD CHEM WORKERS GOGGS (FP N)
Other Protective Equipment	NONE REQD IN NORMAL USAGE. PROD IS ACIDIC, ALWAYS WASH HANDS AFTER USE. EMERG EYE WASH & DELUGE SHOWER WHICH (SUP DAT)
Work Hygenic Practices	NONE SPECIFIED BY MANUFACTURER
Supplemental Health/Safety Data	NONE SPECIFIED BY MANUFACTURER. OTHER PROT EQUIP: MEET ANSI DESIGN CRITERIA (FP N)

SECTION IX - Label Data

Protect Eye	NO
Protect Skin	NO
Protect Respiratory	NO
Chronic Indicator	UNKNOWN
Contact Code	UNKNOWN
Fire Code	UNKNOWN
Health Code	UNKNOWN
React Code	UNKNOWN

SECTION X - Transportation Data

Container Quantity	28
Unit of Measure	OZF

SECTION XI - Site Specific/Reporting Information

SECTION XII - Ingredients/Identity Information

Ingredient #	1
Ingredient Name	PHOSPHORIC ACID (SARA 313) (CERCLA)
CAS Number	7664382
NIOSH Number	TB6300000
Proprietary	YES
Percent	12-13
OSHA PEL	1 MG/M3
ACGIH TLV	1 MG/M3/3 STEL
Recommended Limit	N/K
Ingredient #	2
Ingredient Name	GLYCOLIC ACID
CAS Number	79141

NIOSH Number	MC5250000
Proprietary	YES
Percent	4-5
OSHA PEL	N/K (FP N)
ACGIH TLV	N/K (FP N)
Recommended Limit	N/K
Ingredient #	3
Ingredient Name	PROPRIETARY INGREDIENT; (AROMATIC PHOSPHATE ESTER)
CAS Number	N/K
NIOSH Number	1004255PI
Proprietary	YES
Percent	1-2
OSHA PEL	N/K (FP N)
ACGIH TLV	N/K (FP N)
Recommended Limit	N/K
