

SECTION 1 - IDENTIFICATION

Product: S.L.R.™ - SCALE, LIME, AND RUST REMOVER

Recommended use of the chemical and restrictions on use:

Uses: Inhibited liquid phosphoric acid for descaling, removing rust and oxidation, etc.

List of advices against: Not available.

Details of the supplier of the Safety Data Sheet:

Momar, Inc.
1830 Ellsworth Industrial Dr.
Atlanta, Ga. 30318
404-355-4580
800-556-3967
www.momar.com

Emergency Telephone Number (INFOTRAC): North America: 1-800-535-5053
International: 1-352-323-3500

SECTION 2 – HAZARD IDENTIFICATION

Classification:	Eye Damage/Irritation	1
	Skin Corrosion/Irritation	1B
	Specific target organ toxicity (Single Exposure)	3
	Corrosive to metals	1

Signal Word: Danger.

Hazard Statements: Causes serious skin burns and eye damage.
May cause respiratory irritation.
May be corrosive to metals.

Pictograms:



Precautionary Statements:

Prevention: Do not breathe mists/fumes/gas/vapors/spray.
Wash hands and all exposed skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Use only outdoors or in a well-ventilated area.
Keep only in original container.

Response: 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 skin with water/shower.
Wash contaminated clothing before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Immediately call a poison center/doctor/hospital.
Absorb spillage to prevent material damage.

Storage: Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Store in corrosive resistant container with a resistant inner liner.

Disposal: Dispose of contents/container to approved waste disposal plant in accordance with federal, state, and local regulations.

Other Hazards: Contact with sodium hypochlorite liberates toxic gas.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent Weight
Phosphoric Acid	7664-38-2	40-60
Dipropylene Glycol Methyl Ether	34590-94-8	10-20

SECTION 4 – FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water, remove contact lenses (if easy to do so), and continue to flush for at least 15-20 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Get medical attention immediately. Continue rinsing eyes while in transport.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing. Wash clothing and shoes before reuse. Get medical attention.

Inhalation: Remove from exposure. If not breathing, give artificial respiration. Get medical attention.

Ingestion: Get medical attention immediately. Do not induce vomiting. If victim is conscious and alert, give large amounts of water. Discontinue water if victim feels like they may vomit. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects:

Acute: Severe eye irritation or damage. Possible skin burns. Severe respiratory tract irritation or damage.

Delayed: Prolonged or excessive contact with skin could cause damage or dermatitis.

Indication of Any Immediate Medical Attention and Special Treatment Needed: None known.

SECTION 5 – FIREFIGHTING MEASURES

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Specific Hazards Arising From the Substance or Product: Avoid contact with spilled material. Contact with reactive metals can form flammable hydrogen gas.

Hazardous Combustion Products: Oxides of carbon and phosphorus.

Protective Equipment and Precautions for Firefighters: Wear a self-contained breathing apparatus, and full protective gear. Chemical protective clothing may be needed.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Avoid contact with skin and eyes. Wear protective clothing, see Section 8.

Environmental Precautions: Keep out of sewers, drains, and bodies of water. Spills should be diked and absorbed.

Methods and Materials for Containment and Cleaning Up: Absorb in vermiculite, dry sand, or earth, and place in containers. Collect and reclaim or dispose of in sealed containers in a licensed waste facility. Containers with spillage must be properly labeled with correct contents and hazard symbol.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling: Avoid spilling, skin, and eye contact. Wash thoroughly after handling. Use only with adequate ventilation. For industrial or professional use only. Do not cut or weld empty container. KEEP OUT OF REACH OF CHILDREN.

Conditions for Safe Storage: Store in a cool dry place.

Incompatibilities: Bases, reactive metals, oxidizing agents

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits and Recommendations:

Chemical Name	OSHA PEL	ACGIH TLV	Other Exposure Limits
Phosphoric Acid	1 ppm	1 ppm	
Dipropylene Glycol Methyl Ether	100 ppm	100 ppm	

Engineering Controls: Normal ventilation.

Personal Protection Measures:

Respiratory Protection: Normally not needed. If needed, use NIOSH approved full face mask and filter for acids.

Skin and Body: Chemical resistant gloves recommended. Chemical resistant apron recommended.

Eye Protection: Safety glasses/goggles and faceshield recommended.
Other Recommendations: None.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Clear amber liquid with cinnamon odor.
Odor Threshold: Not determined.
pH: Less than 1.
Freezing Point: Not determined.
Boiling Point: 212°F
Flash Point: No flash at boiling.
Evaporation Rate (BUAC=1): Slower.
Flammability: Not flammable.
Flammability or Explosion Limits: **Upper:** Not applicable. **Lower:** Not applicable.
Vapor Pressure: Not determined.
Specific Gravity: 1.230
Solubility in Water: Complete.
Solubility in Other Solvents: Not determined.
Partition Coefficient (n-octanol/water): Not determined.
Auto-ignition Temperature: Not determined.
Decomposition Temperature: Not determined.
Viscosity: Not determined.
Other Information: Not determined.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use. Avoid contact with incompatible materials. See list below.
Chemical Stability: Stable under normal temperature conditions and recommended use.
Possible Hazardous Reactions: Not available.
Conditions to Avoid: Contact with incompatible materials.
Incompatible Materials: Bases, reactive metals, oxidizing agents
Hazardous Decomposition Products: Oxides of carbon and phosphorus.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure:

Inhalation	Ingestion	Skin	Eye
X	X	X	X

Physical, Chemical and Toxicological Effects:

Symptoms: Irritation and possible damage to skin and eyes. Irritation or damage to respiratory tract.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure:

Sensitization:	Not a skin sensitizer.
Germ Cell Mutagenicity:	Not classified.
Carcinogenicity:	No components of this product are listed by NTP, IARC, or OSHA.
Reproductive Toxicity:	Not classified.
Specific Target Organ Toxicity:	Eyes and skin

Numerical Measures of Toxicity:

Product:	Not determined.
Component:	

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric Acid	1530 mg/kg (rat)	2740 mg/kg (rabbit)	Not determined
Dipropylene Glycol Methyl Ether	5152 mg/kg	Not determined	Not determined

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:	Phosphoric Acid: Fish – LC50 - 138 mg/L; 96 hrs (Mosquito fish) Dipropylene Glycol Methyl Ether: Fish – LC50 - 10,000 mg/l - 96hrs (fathead minnow) Invertebrates – LC50 - 1919 mg/l - 48hrs (daphnia magna)
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Persistence and Degradability:	No data.
Bioaccumulation:	No data.
Mobility:	No data.

Other Adverse Effects:	Dangerous to aquatic life in high concentrations.
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SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Treatment Methods:	
Disposal of Wastes:	Dispose of product in accordance with local, state, and federal regulations.
Contaminated Packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Other Information:	None.

SECTION 14 – TRANSPORTATION INFORMATION

DOT:

UN Number: UN 1805
Proper Shipping Name: Phosphoric Acid Solution
Hazard Class: 8
Packing Group: III

SECTION 15 – REGULATORY INFORMATION

US Federal Regulations:

TSCA: All ingredients of this product are listed in the TSCA inventory.

SARA 313: This product contains the following chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and Title 40 CFR 372.

Chemical Name	CAS Number	Percent Weight
None		

US State Regulations:

California: This product contains the following chemical or chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm: None.

SECTION 16 – OTHER INFORMATION

Issue Date: January 5, 2006
Revision Date: February 6, 2014

Health	Flammability	Reactivity	Personal Protection
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