



# Kitter Corporation

# Material Safety Data Sheet

## LIME SOLV Lime Scale and Rust Remover

### Section 1: Identification

Product Name: LIME SOLV Lime Scale and Rust Remover  
Manufacturer's Name: Kitter Corporation  
Address: 100 S. Cleveland (P.O. Box 9680) Amarillo, Texas 79105  
Emergency Phone Number: Chem-Tel 1-800-255-3924  
Product Stewardship: 806-376-1448  
Date Prepared: April 28, 2003

### Section 2: Composition / Information on Ingredients

CHEMICAL	C.A.S. NUMBER	WEIGHT %
Water	7732-18-5	65 - 99
Phosphoric Acid, (75% solution)	7664-38-2	1 - 5
Muriatic Acid	7647-01-0	<1.0
Nonionic Surfactants	68412-54-4	<1.0

#### OSHA Hazardous Components (29 CFR 1910.1200):

	OSHA PEL	ACGIH TLV
Phosphoric acid	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Muriatic Acid	5 ppm	Ceiling

### Section 3: Hazard Identification

#### Potential Health Effects:

Eyes: Contact with eyes can cause severe irritation.  
Skin: Prolonged or repeated contact with skin may cause irritation.  
Ingestion: Swallowing may cause abdominal discomfort, nausea, vomiting and diarrhea.  
Inhalation: Concentrated vapors can cause irritation of the lungs.  
Medical Conditions Aggravated by Overexposure: Repeated skin contact may cause dermatitis.

### Section 4: First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes. Seek medical attention immediately.  
Skin Contact: Wash skin with water and remove contaminated clothing. Wash contaminated clothing before reuse.  
Ingestion: Do not induce vomiting. If conscious and alert, give two glasses of water. Seek medical attention immediately.  
Inhalation: Remove to fresh air. Seek medical attention if symptoms persist.

### Section 5: Fire Fighting Measures

Flash Point & Method: None, PMCC Method  
Flammable Limits: LEL - N/A UEL - N/A  
Auto ignition Temperature: N/E  
General Hazard: None  
Fire Fighting Instructions: Use self-contained breathing apparatus for maximum respiratory protection. Use water spray to cool containers in area.  
Unusual Fire & Explosion Hazards: None known

### Section 6: Accidental Release Measures

Small Spills: Soak up with absorbent. Shovel in waste containers. Flush area with water.  
Large Spills: Recover spilled material for reprocessing or disposal. See Section 13 for proper disposal information.

### Section 7: Handling & Storage

Storage Temperature: Ambient  
Storage Pressure: Atmospheric  
General: Keep container closed when not in use. Store in a cool, well-ventilated area. Avoid overheating or freezing.  
Wash thoroughly after handling. Keep out of reach of children. Spilled material is slippery.

# LIME SOLV Lime Scale and Rust Remover

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## Section 8: Exposure Control / Personal Protection

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Engineering Controls: Local exhaust ventilation is acceptable. Mechanical ventilation is recommended.

Personal Protection:

Respiratory Protection: If vapors, fumes or dusts are present use a MSHA or NIOSH approved respirator, a fresh air breathing apparatus or a self-contained breathing apparatus.

Hand Protection: Water repellent gloves.

Eye Protection: Safety glasses or goggles.

Other Recommendations: Not required.

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## Section 9: Physical & Chemical Properties

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Specific Gravity (H <sub>2</sub> O=1) . . . . .	1.09	Boiling Point . . . . .	>212°F
Vapor Pressure (mmHg.) . . . . .	N/A	Melting Point . . . . .	N/A
Vapor Density (AIR=1) . . . . .	>1	Solubility in Water . . . . .	100%
Evaporation Rate (n-BuAc=1) . . . . .	<1	pH . . . . .	2

Appearance and Odor: Opaque green liquid with a mild odor.

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## Section 10: Stability & Reactivity

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General: Stable, hazardous polymerization will not occur.

Incompatible Materials: Reactive alkali metals, strong acids and bases.

Hazardous Decomposition: Forced combustion yields carbon oxides.

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## Section 11: Toxicological Information

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Results of Component Toxicity Tests Performed:

No Chemicals used in this product are listed as carcinogens or suspected carcinogens by the National Toxicological Program, IARC monographs or OSHA.

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## Section 12: Ecological Information

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Aquatic Effects: This product is biodegradable.

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## Section 13: Disposal Considerations

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Waste Disposal Method: Recover liquid or dispose waste material in accordance with all applicable federal, state and local regulations and laws. Material collected with absorbent may be disposed of in a permitted landfill.

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## Section 14: Transportation Information

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U.S. DOT Information:

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, n.o.s.,  
(contains PHOSPHORIC ACID)

Hazard Class: 8

Packing Group: III

UN Number: UN3264

Limitations: N/A

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## Section 15: Regulatory Information

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U.S. Federal Regulations: MSDS complies with OSHA's Hazard Communication Rule, 29CFR1910.1200.

CERCLA /Superfund, 40 CFR 117: N/A

SARA Superfund and Reauthorization Act of 1986 Title III Sections 302, 311, 312 and 313:

Section 302: None of the chemicals are listed in Section 302

Section 311 / 312: By our hazard evaluation, this product is non-hazardous.

Section 313: None of the chemicals are listed in Section 313.

TSCA: All substances are TSCA Listed.

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## Section 16: Other Information

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Revision Dates, Sections, Revised By: 04-18-2003, CREATED, D. Sloan, 04-28-03, 02-04-08 Revised Format, D. Sloan  
Abbreviations used in this Document: N/A – Not Applicable, N/E – Not Established

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