



Kitter Corporation

Material Safety Data Sheet

SILVER PRO Liquid Silverware Brightener and Pre-Soak

Section 1: Identification

Product Name: SILVER PRO Liquid Silverware Brightener and Pre-Soak
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: June 10, 2003

Section 2: Composition / Information on Ingredients

CHEMICAL	C.A.S. NUMBER	WEIGHT %
Water	7732-18-5	75 - 99
Tetrapotassium pyrophosphate	7320-34-5	10 - 20
2-butoxyethanol	111-76-2	1 - 5
Trisodium phosphate dodecahydrate	10101-89-0	1 - 5
Tetrasodium ethylenediaminetetraacetate	64-02-8	1 - 2
Sodium xylene sulfonate	1300-72-7	1 - 5

OSHA Hazardous Components (29 CFR 1910.1200):

	OSHA PEL	ACGIH TLV
2-butoxyethanol	100 ppm	100 ppm TWA

Section 3: Hazard Identification

Potential Health Effects:

Eyes: Contact with eyes may cause severe irritation or damage.
Skin: Product is mild skin irritant. Prolonged or repeated contact with skin may cause irritation.
Ingestion: Harmful if swallowed. Swallowing may cause abdominal discomfort, nausea, vomiting and diarrhea.
Inhalation: Inhalation of vapors may be irritating to the respiratory system.
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.
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: Inhalation of vapors may be irritating to the respiratory system.

Section 5: Fire Fighting Measures

Flash Point & Method: >200°F, TCC Method
Flammable Limits: LEL - N/A UEL - N/A
Auto ignition Temperature: Not Determined
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.

SILVER PRO Liquid Silverware Brightener and Pre-Soak

Section 8: Exposure Control / Personal Protection

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.

Section 9: Physical & Chemical Properties

Specific Gravity (H ₂ O=1)	1.14	Boiling Point	>200°F
Vapor Pressure (mmHg.)	N/A	Melting Point	N/A
Vapor Density (AIR=1)	>1	Solubility in Water	miscible
Evaporation Rate (n-BuAc=1)	<1	pH	8 - 9

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

Section 10: Stability & Reactivity

General: Stable, hazardous polymerization will not occur.

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

Hazardous Decomposition: Forced combustion yields carbon oxides.

Section 11: Toxicological Information

Results of Component Toxicity Tests Performed:

For 2-butoxyethanol (111-76-2): Oral LD₅₀ = 1.4 g/kg, (Guinea Pig); Dermal LD₅₀ >2 g/kg (Guinea Pig);

Inhalation LC₅₀ > 650 ppm (Guinea Pig)

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

Section 12: Ecological Information

Aquatic Effects: LC₅₀ 96-hour for Fish = <1 mg/m³

EC₅₀ 48-hour "Daphnia magna" = <1 mg/m³

Section 13: Disposal Considerations

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.

RCRA 40 CFR 261 Classification: Unused material is not regulated.

Section 14: Transportation Information

U.S. DOT Information:

Proper Shipping Name: NON-HAZARDOUS

Hazard Class: N/A

Packing Group: N/A

UN Number: N/A

Limitations: N/A

Section 15: Regulatory Information

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.

Section 16: Other Information

Revision Dates, Sections, Revised By: 06-10-2003, CREATED, D. Sloan

Abbreviations used in this Document: N/A – Not Applicable, N/E – Not Established

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