GELEST, INC.

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MATERIAL SAFETY DATA SHEET EMERGENCY TELEPHONE CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: SILVER p-TOLUENESULFONATE - CXSV078 CHEMICAL NAME: SILVER p-TOLUENESULFONATE SYNONYMS: SILVER TOSYLATE CHEMICAL FAMILY: SILVER COMPOUND FORMULA: C ₇ H ₇ O ₃ SAg HMIS CODES HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0	
INGREDIENTS	
IDENTITY SILVER p-TOLUENESULFONATE	CAS NO. % TLV OSHA PEL 16386-95-6 >95 not established (ACGIH TLV-TWA: 0.01mg/m ³ as Ag) PHYSICAL DATA
Boiling Point: NA Specific Gravity: >1 Vapor Density: N/A % volatiles: <3 Molecular Weight: 279.07 Appearance & Color: White to gray pow	Melting Point: not determined Vapor Pressure ,25°: <0.1mm Solubility in water: soluble Evaporation rate: NA Other: NA wder

FIRE & EXPLOSION DATA

Flash Point, COC: NA Autoignition Temp.: NA Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical. Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

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Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose, LC: Lethal Concentration; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; HMIS: Hazardous Material information System; CAS No.: Chemcial Abstract Service Registration Number Gelest, Inc. © 2008

ENVIRONMENTAL INFORMATION

Spill response: Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Dispose of as solid waste. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Will cause immediate or delayed severe eye irritation.

Skin contact: May produce irritation or contact dermatitis. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of dust or particulates may irritate the respiratory tract.

Oral Toxicity: not determined

Chronic Toxicity: The absorption of silver compounds into the circulation and subsequent deposition of reduced siver may result in the production of greyish pigmentation in the skin and mucous membranes, a condition known as argyria.

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

REACTIVITY DATA

Stability: Stable at room temperature.

Conditions to avoid: Oxidizing agents, soluble carbonates and phosphates, sulfuric acid. Hazardous decomposition products: Organic acid and organic vapors and silver oxide fumes.

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SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended. Respiratory Protection: If exposure exceeds TLV, NIOSH approved dust and mist respirator. Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses. Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

For research and industrial use only.

Storage and Handling: Store in sealed containers.



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