

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **SILVER DIETHYLDITHIOCARBAMATE - AKS720**

CHEMICAL NAME: SILVER DIETHYLDITHIOCARBAMATE

SYNONYMS:

CHEMICAL FAMILY: SILVER COMPOUND

FORMULA: C₅H₁₀NS₂Ag

HMIS CODES HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
SILVER DIETHYLDITHIOCARBAMATE	1470-61-7	>95	not established	

PHYSICAL DATA

Boiling Point: NA

Specific Gravity: not determined

Vapor Density: NA

% volatiles: <3

Molecular Weight: 256.14

Appearance & Color: Yellow crystalline powder.

Melting Point: 172-5°C

Vapor Pressure: not determined

Solubility in water: insoluble

Evaporation rate: NA

FIRE & EXPLOSION DATA

Flash Point, COC: NA

Autoignition Temp.: not determined

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.

-1-(AKS720)

ENVIRONMENTAL INFORMATION

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

Recommended Disposal: All material should be retained for precious metal recovery.

HEALTH HAZARD DATA

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

Skin contact: May produce argyria (a slate-gray or bluish discoloration of the skin and deep tissues due to the deposit of insoluble aluminate of silver). 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: not determined

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: Light sensitive, decomposes slowly at temperatures above 70°C.

Conditions to avoid: Material decomposes slowly in contact with air by reaction with water and oxygen.

Hazardous decomposition products: Organic acid vapors and silver oxide, silver sulfide fumes.

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 use only.

Storage and Handling: Store in sealed containers in the dark.

TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS, NOI

DOT HAZARD CLASS: None required

DOT LABEL: None required

DOT ID No: None required

Prepared by safety and environmental affairs ISSUE DATE AKS720:5/12//03
SUPERSEDES: none

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