



MATERIAL SAFETY DATA SHEET

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MSDS No. 9809903 9809907
Effective Date: October 1, 2002

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Silver Nitrate	416-984-3000 HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 WHMIS 0 1 2 3 4
Chemical Synonyms	Silver Nitrate	
Formula	AgNO ₃	
CAS No.	7761-88-8	

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Silver nitrate	100%	N/A
DANGER! STRONG OXIDIZER! POISON!		

SECTION III PHYSICAL DATA

Melting Point (°C)	212°C	Specific Gravity (H ₂ O = 1)	4.35
Boiling Point (°C)	212°C	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	952 g/100 mL @ 100°C		
Appearance & Odor	White crystals; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Firefighting Procedures	Use dry chemical, CO ₂ , alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.				

Flammability and Explosion Hazards

Oxidizing material. May catch fire in contact with combustible materials. Avoid contact with organic materials. Fire or excessive heat may produce hazardous decomposition products to be produced as dust or fume.

TDG	Class 5.1 Oxidizing substance. UN 1493
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SECTION V REACTIVITY DATA SS0160

Chemical Stability	Yes	X	If no. under what conditions?
	No		
Incompatible with Other products	Yes	X	Reducing agents and organic materials.
	No		
Hazardous Decomposition Products	Oxides of nitrogen and silver.		
Reactive under what conditions	Reactive with reducing agents and organic materials.		

SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Ingestion. Inhalation.
TLV	TWA: 0.01 mg/m ³ , CEIL: 0.03 mg/m ³ (as Ag)
Toxicity for animals	Acute oral toxicity (LD50): 50 mg/kg (Mouse).
Chronic effects on humans	Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Target organs: Liver, kidneys.
Acute effects on humans	Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastrointestinal or respiratory tract, characterized by burning, sneezing and coughing. Can be fatal if inhaled or ingested.

SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Oxidizing materials should be stored in a separate safety storage cabinet or room.
Precautions	Keep away from heat. Keep away from sources of ignition. Keep away from combustible materials. DO NOT ingest. If ingested, seek immediate medical attention. DO NOT breathe dust.
Spill or leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Protective Clothing	Splash goggles. Synthetic apron. Vapor and dust respirator.

SECTION VIII FIRST AID MEASURES

Specific first aid measures	Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.
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SECTION IX PREPARATION OF THE MSDS

Rev. No.	5	Date	October 1, 2002	Approved	Michael Raszeja
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