

SILVER NITRATE

SVN

CAUTIONARY RESPONSE INFORMATION			
Common Synonyms Lunar caustic	Solid crystals Sinks and mixes with water.	Colorless to grayish black	Odorless
Notify local health and pollution control agencies. Protect water intakes.			
Fire	Not flammable.		
Exposure	CALL FOR MEDICAL AID. IRRITATING to skin and eyes. Harmful if swallowed. Flush affected areas with plenty of water. IF IN EYES: hold eyelids open and flush with plenty of water. IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk.		
Water Pollution	HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.		

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS	3. HEALTH HAZARDS
Dilute and disperse Stop discharge Clean shore line	2.1 CG Compatibility Group: Not listed. 2.2 Formula: AgNO ₃ 2.3 IMO/UN Designation: 5.1/1493 2.4 DOT ID No.: 1493 2.5 CAS Registry No.: 7761-88-8 2.6 NAERG Guide No.: 140 2.7 Standard Industrial Trade Classification: 52359	3.1 Personal Protective Equipment: Goggles or face shield; rubber gloves. 3.2 Symptoms Following Exposure: Concentrated solutions will produce irritation, ulceration, and discoloration of the skin also causes severe irritation of the eyes. Ingestion will produce violent abdominal pain and other gastroenteric symptoms. 3.3 Treatment of Exposure: INGESTION: gastric lavage with dilute solution of sodium chloride, followed by cathartics and demulcents. Other treatment is symptomatic. SKIN: wash promptly. 3.4 TLV-TWA: 0.01 mg Ag/m ³ 3.5 TLV-STEL: Not listed. 3.6 TLV-Ceiling: Not listed. 3.7 Toxicity by Ingestion: Grade 3; LD ₅₀ = 50 to 500 mg/kg 3.8 Toxicity by Inhalation: Currently not available. 3.9 Chronic Toxicity: Currently not available 3.10 Vapor (Gas) Irritancy Characteristics: Non-volatile 3.11 Liquid or Solid Characteristics: Burns skin on prolonged contact. 3.12 Odor Threshold: Odorless 3.13IDLH Value: 10 mg Ag/m ³ 3.14 OSHA PEL-TWA: 0.01 mg Ag/m ³ 3.15 OSHA PEL-STEL: Not listed. 3.16 OSHA PEL-Ceiling: Not listed. 3.17 EPA AEGL: Not listed

4. FIRE HAZARDS	7. SHIPPING INFORMATION
4.1 Flash Point: Not flammable	7.1 Grades of Purity: Reagent 99.8+%
4.2 Flammable Limits in Air: Not flammable	7.2 Storage Temperature: Ambient
4.3 Fire Extinguishing Agents: Not pertinent	7.3 Inert Atmosphere: No requirement
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent	7.4 Venting: Open
4.5 Special Hazards of Combustion Products: Not pertinent	7.5 IMO Pollution Category: Currently not available
4.6 Behavior in Fire: Increases flammability of combustibles.	7.6 Ship Type: Currently not available
4.7 Auto Ignition Temperature: Not flammable	7.7 Barge Hull Type: Currently not available
4.8 Electrical Hazards: Not pertinent	
4.9 Burning Rate: Not flammable	
4.10 Adiabatic Flame Temperature: Currently not available	
4.11 Stoichiometric Air to Fuel Ratio: Not pertinent	
4.12 Flame Temperature: Currently not available	
4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent.	
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	
8. HAZARD CLASSIFICATIONS	
8.1 49 CFR Category: Oxidizer	
8.2 49 CFR Class: 5.1	
8.3 49 CFR Package Group: II	
8.4 Marine Pollutant: No	
8.5 NFPA Hazard Classification:	
Category	Classification
Health Hazard (Blue).....	0 1
Flammability (Red).....	0 0
Instability (Yellow).....	0 0
Special (White).....	OX OX
* First column refers to non-fire situation.	
8.6 EPA Reportable Quantity: 1 pound	
8.7 EPA Pollution Category: X	
8.8 RCRA Waste Number: Not listed	
8.9 EPA FWPCA List: Yes	
9. PHYSICAL & CHEMICAL PROPERTIES	
9.1 Physical State at 15° C and 1 atm: Solid	
9.2 Molecular Weight: 169.87	
9.3 Boiling Point at 1 atm: Decomposes	
9.4 Freezing Point: 414°F = 212°C = 485K	
9.5 Critical Temperature: Not pertinent	
9.6 Critical Pressure: Not pertinent	
9.7 Specific Gravity: 4.35 at 19°C (solid)	
9.8 Liquid Surface Tension: Not pertinent	
9.9 Liquid Water Interfacial Tension: Not pertinent	
9.10 Vapor (Gas) Specific Gravity: Not pertinent	
9.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent	
9.12 Latent Heat of Vaporization: Not pertinent	
9.13 Heat of Combustion: Not pertinent	
9.14 Heat of Decomposition: Not pertinent	
9.15 Heat of Solution: Not pertinent	
9.16 Heat of Polymerization: Not pertinent	
9.17 Heat of Fusion: 16.2 cal/g	
9.18 Limiting Value: Currently not available	
9.19 Reid Vapor Pressure: Currently not available	

NOTES

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
	NOT PERTINENT		NOT PERTINENT		NOT PERTINENT		NOT PERTINENT

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
34	126.299		NOT		NOT		NOT
36	131.599						
38	136.900						
40	142.299						
42	147.599		PERTINENT		PERTINENT		PERTINENT
44	152.900						
46	158.299						
48	163.599						
50	168.900						
52	174.299		NOT		NOT		NOT
54	179.599						
56	184.900						
58	190.299						
60	195.599		NOT		NOT		NOT
62	200.900						
64	206.299						
66	211.599						
68	216.900						
70	222.299						
72	227.599						
74	232.900						
76	238.299						
78	243.599						
80	248.900						
82	254.299						
84	259.599						