

medilines

Silver Nitrate

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	Medilines Silver Nitrate
Synonyms	lunar caustic / nitrate of silver / nitric acid silver salt / nitric acid silver(1+) salt / silver mononitrate / silver nitrate / silver(I) nitrate / silver(I) salt nitric acid.
CAS #	7761-88-8
Formula	AgNO ₃
Pack size	25 gms, 100 gms, 500 gms.
Brand	Medilines

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory chemical Chemical intermediate Water treatment Oxidant Photographic chemical: component Cosmetic product: dyestuff
Recommended use	Laboratory chemical
Restrictions on use	Not for food, drug or household use

1.3 Details of the supplier of the safety data sheet

Diasonic

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Company	Diasonic, 31-Temple Road, Lahore.
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Emergency mobile no.	+92 300 9467610

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Oxidizing solids Category 2: H272 May intensify fire; oxidizer

Skin corrosion/irritation Category 1B: H314 Causes severe skin burns and eye damage

Serious eye damage/eye irritation Category 1: H318 Causes serious eye damage

Hazardous to the aquatic environment - Acute Hazard Category 1: H400 Very toxic to aquatic life

Hazardous to the aquatic environment - Chronic Hazard Category 1: H410 Very toxic to aquatic life with long lasting effects

Full text of Hazards statements: see section 16

2.2 Hazard pictograms: Label Elements



Signal word

Danger

Hazard statements

H272 - May intensify fire; oxidizer

H314 - Causes severe skin burns and eye damage

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements:

P210 - Keep away from heat, open flames, sparks. - No smoking.

P220 - Keep/Store away from combustible materials

P221 - Take any precaution to avoid mixing with combustibles

P260 - Do not breathe dust.

P264 - Wash exposed skin thoroughly after handling.

P273 - Avoid release to the environment.

P280 - Wear eye protection, face protection, protective gloves, protective clothing.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a poison center or doctor/physician.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents/container to comply with local, state and federal regulations

2.3	Other hazards
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Other hazards not contributing to the classification : None

2.4	Unknown acute toxicity
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Not applicable

SECTION 3. Composition/information on ingredients

3.1	Substances
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Substance type : Mono-constituent

Silver Nitrate (Main constituent) CAS number: 7761-88-8 EC number: 231-853-9	100 %	Classification Ox. Sol. 2, H272 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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Full text of hazard classes and H-statements : see section 16

3.2	Mixtures
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Not applicable

SECTION 4. First aid measures

4.1	Description of first aid measures
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General information Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

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Inhalation:	Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
Ingestion	Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not apply (chemical) neutralizing agents without medical advice. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Ingestion of large quantities: immediately to hospital. Doctor: administration of chemical antidote.
Skin contact	Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents without medical advice. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.
Eye contact	Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist.

4.2	Most important symptoms and effects, both acute and delayed
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Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects	:Not expected to present a significant hazard under anticipated conditions of normal use.
Inhalation	:AFTER INHALATION OF DUST: Dry/sore throat. Coughing. FOLLOWING SYMPTOMS MAY APPEAR LATER: Risk of lung edema.
Ingestion	:AFTER ABSORPTION OF LARGE QUANTITIES: Burns to the gastric/intestinal mucosa. Vomiting. Abdominal pain. Diarrhoea. Shock. Dizziness. Low arterial pressure. Disturbances of consciousness. Cramps/uncontrolled muscular contractions. Respiratory collapse.
Skin contact	:Caustic burns/corrosion of the skin.
Eye contact	:Corrosion of the eye tissue. Permanent eye damage
Chronic symptoms	:May stain the skin. Blue/grey discoloration of the skin. Inflammation/damage of the eye tissue. Visual disturbances. Possible inflammation of the respiratory tract.

4.3	Indication of any immediate medical attention and special treatment needed
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Notes for the doctor The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Treat symptomatically.

SECTION 5. Fire fighting measures	
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5.1	Extinguishing media
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Suitable extinguishing media	Water. Quick-acting ABC powder extinguisher. Quick-acting CO2 extinguisher. Quantities of water.
Unsuitable extinguishing media	Foam. Foam.

5.2	Specific hazards arising from the substance or mixture
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Fire hazard	DIRECT FIRE HAZARD. Non combustible. INDIRECT FIRE HAZARD. May intensify fire; oxidiser. Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion hazard	INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".

5.3	Special protective equipment and precaution for fire-fighters
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Precautionary measures fire	Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.
Protection during firefighting	Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6. Accidental Release/ Spillage Measures:

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment	Gloves. Face-shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen apparatus.
Emergency procedures	Mark the danger area. Prevent dust cloud formation. No naked flames. Keep containers closed. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.
Measures in case of dust release	In case of dust production: keep upwind. In case of dust production: consider evacuation. Dust production: have neighbourhood close doors and windows.

6.1.2 For emergency responders

Protective equipment	Equip cleanup crew with proper protection
Emergency procedures	Ventilate area. Stop release.

6.2 Environmental precautions

Environmental precautions	Prevent soil and water pollution. Prevent spreading in sewers.
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6.3 Methods and material for containment and cleaning up

For containment	Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. Take account of toxic/corrosive precipitation water.
Methods for cleaning up	Prevent dispersion by covering with dry sand. Scoop solid spill into closing containers or synthetic bags. Carefully collect the spill/leftovers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4 Reference to other sections

Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.
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SECTION 7. Handling and storage

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7.1	Precautions for safe handling
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Precautions for safe handling Avoid raising dust. Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Keep container tightly closed.

Hygiene measures Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2	Conditions for safe storage, including any incompatibilities
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Storage conditions Keep only in the original container in a cool, well ventilated place away from : combustible materials, incompatible materials. Keep container closed when not in use.

Incompatible products Strong bases. combustible materials. Sodium hypochlorite. Strong acids.

Incompatible materials Combustible material. Sources of ignition. Direct sunlight.

Storage temperature 5 - 30 °C

Heat-ignition KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage KEEP SUBSTANCE AWAY FROM: combustible materials. reducing agents. (strong) bases. organic materials. alcohols.

Storage area Store in a cool area. Store in a dry area. Store in a dark area. Keep container in a wellventilated place. Keep locked up. Unauthorized persons are not admitted. Meet the legal requirements. Keep only in the original container.

Special rules on packaging SPECIAL REQUIREMENTS: closing. watertight. clean. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials SUITABLE MATERIAL: iron. synthetic material.

7.3	Specific end use(s)
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Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8. Handling, Exposure control / personal protection and storage	
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8.1	Control parameters
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Silver Nitrate (7761-88-8)		
ACGIH	ACGIH TWA (mg/m ³)	0.01 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	0.01 mg/m ³

8.2	Appropriate engineering controls
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Appropriate engineering controls Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3	Individual protection measures/Personal protective equipment
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Personal protective equipment: Gloves. Safety glasses. Chemical resistant apron. Face shield. Protective clothing. Dust production: dust mask with filter type P3.

Materials for protective clothing: GIVE EXCELLENT RESISTANCE: nitrile rubber. GIVE GOOD RESISTANCE: butyl rubber. neoprene. PVA

Hand protection: Gloves

Eye/face protection Face shield. In case of dust production: protective goggles.

Other skin and body protection Corrosion-proof clothing. In case of dust production: head/neck protection

Respiratory protection: Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus

Personal protective equipment symbol(s):



Other information: Do not eat, drink or smoke during use.

SECTION 9. Physical and Chemical Properties	
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9.1	Information on basic physical and chemical properties
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Physical state : Solid

Appearance : Crystalline solid.

Color : Colourless to grey On exposure to light: dark grey to black

Odor : Odorless

Odor threshold : No data available

pH : 7

Melting point : 212 °C

Freezing point : No data available

Boiling point : Not applicable (decomposes)

Flash point : Not applicable

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : Non flammable.

Vapor pressure : Not applicable

Relative vapor density at 20 °C : 5.8

Relative density : 4.35 (20 °C)

Specific gravity / density : 4352 kg/m³

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Molecular mass :	169.87 g/mol
Solubility :	Soluble in water. Substance sinks in water. Soluble in ammonia. Soluble in glycerol. Water: 71 g/100ml (25 °C) Acetone: 0.4 g/100ml
Log Pow :	0.19 (Estimated value)
Auto-ignition temperature :	No data available
Decomposition temperature :	440 °C
Viscosity, kinematic :	No data available
Viscosity, dynamic :	No data available
Explosion limits :	No data available
Explosive properties :	No data available
Oxidizing properties :	May intensify fire; oxidiser.

9.2	Other information
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VOC content	0 %
Other properties	Translucent. Neutral reaction.

SECTION 10. Stability and reactivity

10.1	Reactivity
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Reactivity	Decomposes on exposure to light. This reaction is accelerated on exposure to impurities. Violent to explosive reaction with many compounds e.g.: with (strong) reducers. Violent to explosive reaction with combustible materials: risk of spontaneous ignition. May be corrosive to metals.
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10.2	Chemical stability
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Stability	Unstable on exposure to light.
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10.3	Possibility of hazardous reactions
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Possibility of hazardous reactions	Not established.
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10.4	Conditions to avoid
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Conditions to avoid	Direct sunlight. High temperature. Extremely high or low temperatures.
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10.5	Incompatible materials
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Materials to avoid	combustible materials. Strong bases. Strong reducing agents. Strong acids.
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10.6	Hazardous decomposition products
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Hazardous decomposition products:	Nitrogen oxides. fume. Carbon monoxide. Carbon dioxide.
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SECTION 11. Toxicological information

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11.1	Information on toxicological effect
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Acute toxicity - oral : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Silver Nitrate (7761-88-8)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 15 day(s))
LC50 inhalation rat (mg/l)	> 0.75 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, (maximum achievable concentration), Inhalation (aerosol), 14 day(s))

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 7

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Likely routes of exposure : Inhalation. Skin and eye contact.

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : AFTER INHALATION OF DUST : Dry/sore throat. Coughing. FOLLOWING SYMPTOMS MAY APPEAR LATER: Risk of lung edema.

Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.

Symptoms/effects after eye contact : Corrosion of the eye tissue. Permanent eye damage.

Symptoms/effects after ingestion : AFTER ABSORPTION OF LARGE QUANTITIES: Burns to the gastric/intestinal mucosa. Vomiting. Abdominal pain. Diarrhoea. Shock. Dizziness. Low arterial pressure. Disturbances of consciousness. Cramps/uncontrolled muscular contractions. Respiratory collapse.

Chronic symptoms : May stain the skin. Blue/grey discoloration of the skin. Inflammation/damage of the eye tissue. Visual disturbances. Possible inflammation of the respiratory tract.

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SECTION 12. Ecological Information**12.1 Toxicity**

Ecology - general	: Dangerous for the environment.
Ecology - air	: Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Very toxic to crustacea. Very toxic to fishes. Severe water pollutant (surface water). Very toxic to algae. May cause eutrophication.

Silver Nitrate (7761-88-8)	
LC50 fish 1	1.2 µg/l (96 h, Pimephales promelas, Semi-static system, Fresh water, Experimental value, Silver ion)

12.2 Persistence and degradability

Silver Nitrate (7761-88-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3 Bio accumulative potential

Silver Nitrate (7761-88-8)	
BCF fish 1	70 (30 day(s), Cyprinus carpio, Static system, Fresh water, Experimental value)
Log Pow	0.19 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4 Mobility in soil

No additional information available

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12.5	Other adverse effect
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Other information : Avoid release to the environment.

SECTION 13. Disposal considerations	
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13.1	Disposal methods
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Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Waste disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Remove to an authorized dump (Class I).

Additional information : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Ecology - waste materials : Avoid release to the environment.

SECTION 14. : Transport information
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Department of Transport (DOT)

In accordance with DOT

Transport document description : UN1493 Silver nitrate, 5.1, II

UN-No.(DOT) : UN1493

Proper Shipping Name (DOT) : Silver nitrate

Packing group (DOT) : II - Medium Danger

Hazard labels (DOT) : 5.1 - Oxidizer



Dangerous for the environment : Yes

Marine pollutant : Yes



DOT Packaging Non Bulk (49 CFR 173.xxx) : 212

DOT Packaging Bulk (49 CFR 173.xxx) : 242

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DOT Special Provisions (49 CFR 172.102) : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle. IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner. T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 152

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 25 kg

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Other information : No supplementary information available.

SECTION 15. : Regulatory information	
15.1	US Federal regulations

Silver Nitrate (7761-88-8) Listed on the United States TSCA (Toxic Substances Control Act) inventory	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1 lb
SARA Section 311/312 Hazard Classes	Physical hazard - Oxidizer (liquid, solid or gas) Health hazard - Acute toxicity (any route of exposure) Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2	International regulations
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CANADA

Silver Nitrate (7761-88-8) Listed on the Canadian DSL (Domestic Substances List)
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EU-Regulations No additional information available

National regulations No additional information available

15.3	US State regulations
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California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16. : : Other information	

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 02/20/2018

Other information : None.

Full text of H-phrases: see section 16:

H272	May intensify fire; oxidizer
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

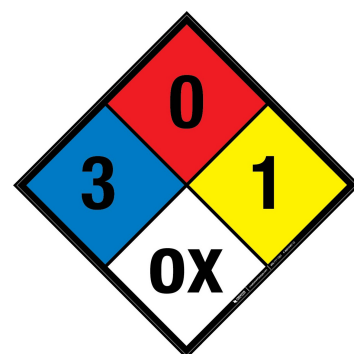
NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 3 - Materials that in themselves are capable of detonation or explosive decomposition or explosive reaction but that require a strong initiating source or must be heated under confinement before initiation.

Hazard Rating Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 0 Minimal Hazard - Materials that will not burn



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Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection

: F (F - Safety glasses, Gloves, Synthetic apron, Dust respirator)

Further information

The information in this safety data sheet was obtained from current and reliable sources. However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Pro-Lab Diagnostics control, it is the users responsibility to perform thorough testing of this product when used in combination with any other product. It is suggested that users familiarise themselves with this safety data sheet before handling the product.

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