

SAFETY DATA SHEET

SILVER NITRATE

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

1.1 Product identifier:	
CAS Number:	7761-88-8
EC number:	231-853-9
1.2 SYNONYMS:	<ul style="list-style-type: none">Nitric acid, silver(I) saltSilver(I) nitrate

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Oxidizing solids, (Category 2) Corrosive to metals, (Category 1) Skin corrosion, (Category 1A) Serious eye damage, (Category 1) Reproductive toxicity, (Category 1B) Short-term (acute) aquatic hazard, (Category 1) Long-term (chronic) aquatic hazard, (Category 1)
Hazard Pictograms:	
Signal Word:	Warning
Hazard statements:	H272: May intensify fire; oxidizer. H290: May be corrosive to metals. H314: Causes severe skin burns and eye damage. H360D: May damage the unborn child. H410: Very toxic to aquatic life with long lasting effects.
Precautionary Statements:	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

	<p>P260: Do not breathe dust.</p> <p>P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p>P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.</p> <p>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P405: Store locked up.</p> <p>P501: Dispose of contents/container in accordance with local/regional/ national/international regulations.</p>
2.3 Other hazards:	
Inhalation:	can irritate the respiratory tract, causing coughing, sore throat, and breathing discomfort.
Ingestion:	can cause severe irritation of the mouth, throat, and stomach, leading to nausea, vomiting, abdominal pain, and potential burns to gastrointestinal tissues.
Skin Contact:	can cause irritation, burns, and persistent dark staining due to silver deposition in the skin.
Eye contact:	can cause severe irritation, burns, and potential permanent eye damage if not promptly rinsed away.
Chronic Exposure:	can lead to argyria (permanent blue-gray skin discoloration), eye irritation, and potential long-term respiratory effects from repeated inhalation.

Aggravation of pre-existing conditions:	may aggravate pre-existing skin disorders, respiratory conditions, and eye problems due to its irritant and oxidative effects.
------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 7761-88-8 SILVER NITRATE
Identification number(s):	EC number: 231-853-9

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. Consult a physician.
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	The most important symptoms and effects of silver nitrate exposure include acute skin and eye burns, respiratory and gastrointestinal irritation, and delayed development of argyria (permanent skin discoloration) with prolonged or repeated exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Carbon dioxide. Water spray. Alcohol-resistant foam.
5.2 Special hazards arising from the substance or mixture:	Nitrogen oxides, silver oxides.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
6.2 Environmental precautions:	Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces.
-------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

	<p>Electrostatic discharge protection.</p> <p>Minimize dust generation and accumulation.</p> <p>Avoid ingestion and inhalation.</p> <p>Tightly closed.</p>
7.2 Conditions for safe storage, including any incompatibilities:	<p>Store in original containers.</p> <p>Keep containers securely sealed</p> <p>Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.</p>
Requirements to be met by storerooms and receptacles:	<p>Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.</p>
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.

Protection of hands:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance: Form:	Crystalline solid
Colour:	Colourless to white
Odour:	Odourless
pH-value:	5
Melting point/Melting range:	202°C
Boiling point/Boiling range:	440°C
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	Not applicable
Decomposition temperature:	200°C
Self-igniting:	Not applicable
Flash point:	Not applicable
Danger of explosion:	None
Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	Not determined
Density at 20 °C:	4.35 g/cm ³
Relative density:	4.35
Vapour density:	Not applicable
Evaporation rate:	Not applicable
Solubility in / Miscibility with-water at 20 °C:	Highly soluble
Partition coefficient:(n-octanol/water)	Not applicable
Viscosity:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity	It's a strong oxidizers, can react vigorously with reducing agents, organic materials.
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	Reacts violently with with reducing agents and organic materials. Combustible
10.4 Conditions to avoid	High temperature, Heat, sparks, or open flames.
10.5 Incompatible materials	Reducing agents, organic materials, acids, halides.
10.6 Hazardous decomposition products	Nitrogen oxides, oxygen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): no data available LD50 (Dermal, Rabbit): no data available LC50 (Inhalation Rat): no data available
Skin corrosion/Irritation:	Causes sere burns
Serious eye damage/irritation:	Cuses serious eye damage
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	May damage the unborn child
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Not biodegradable

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	LC50(fish):no data available EC50(daphnia): no data available EC50(algae): no data available
12.2 Persistence and degradability:	Not biodegradable
12.3 Bioaccumulative potential:	High bioaccumulative
12.4 Mobility in soil:	high mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging Recommendation:	dispose of in accordance with local hazardous waste regulations
Recommended cleansing agents:	Water, Dilute sodium chloride solution; Sodium thiosulfate (Na ₂ S ₂ O ₃) solution

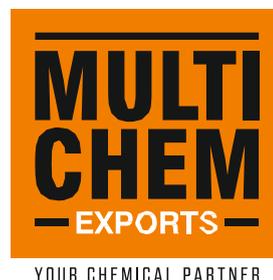
SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	1493
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Silver nitrate
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	5.1
14.4 Packing group · ADR, IMDG, IATA:	2
14.5 Environmental hazards:	Yes
14.6 Special precautions for user:	Handle responsibly.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified in listed substances as oxidizer and environmental hazards.
Named dangerous substances:	This substance is not listed in the annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been carried out.

Multichem Exports LLP.
1315, Dalamal Tower,
Nariman Point, Mumbai 400021, India
T: +91 6301006301
E: sales@multichemexports.com
www.multichemexports.com



SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

MULTI
CHEM
— EXPORTS —
YOUR CHEMICAL PARTNER