

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

Safety Data Sheet 75268

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/21/1998 Revision date: 10/03/2013 Supersedes: 06/04/2013

Product identifier 1.1. : Substance Product form Substance name Silver Nitrate CAS No 7761-88-8 : LC22500 Product code Formula : AqNO3 : lunar caustic / nitrate of silver / nitric acid silver salt / nitric acid silver(1+) salt / silver mononitrate Synonyms / Silver nitrate / silver(I) nitrate / silver(I) salt nitric acid BIG no : 10282 Relevant identified uses of the substance or mixture and uses advised against 1.2. Use of the substance/mixture : Laboratory chemical Chemical intermediate Water treatment Oxidant Photographic chemical: component Cosmetic product: dyestuff Details of the supplier of the safety data sheet 1.3. LabChem Inc Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com 1.4. **Emergency telephone number** Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887 **SECTION 2: Hazards identification** Classification of the substance or mixture 2.1. **GHS-US classification** Ox. Sol. 2 H272 Acute Tox. 4 (Oral) H302 Skin Corr. 1B H314 Eye Dam. 1 H318 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 2.2. Label elements **GHS-US** labelling Hazard pictograms (GHS-US) GHS03 GHS05 GHS07 GHS09 Signal word (GHS-US) : Danger Hazard statements (GHS-US) : H272 - May intensify fire; oxidiser H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage H410 - Very toxic to aquatic life with long lasting effects Precautionary statements (GHS-US) 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 P270 - Do not eat, drink or smoke when using this product 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 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 EN (English) SDS ID: 75268

Version: 1.0

Safety Data Sheet

	P31 P36 P39 P40 P50	 Immediately call a POISON CEI Wash contaminated clothing be Collect spillage Store locked up Dispose of contents/container to 	NTER/doctor/… fore reuse o comply with local, s	tate and federal regulations
2.3. Other hazards				
Other hazards not contributing to the classification	: Nor	e.		
2.4. Unknown acute toxicity (GHS-U	S)			
No data available				
SECTION 3: Composition/inform	ation on i	ngredients		
3.1. Substances		Ť		
Substance type	: Mor	no-constituent		
Name		Product identifier	%	GHS-US classification
Silver Nitrate (Main constituent)		(CAS No) 7761-88-8	100	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Full text of H-phrases: see section 16				
B.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
1 Description of first aid measure	s			
-irst-aid measures general	: Che arre labo prev Kee	ck the vital functions. Unconscious st: artificial respiration or oxygen. C oured breathing: half-seated. Victim rent asphyxia/aspiration pneumonia p watching the victim. Give psychol	: maintain adequate a Cardiac arrest: perforr in shock: on his back a. Prevent cooling by logical aid. Keep the	arrway and respiration. Respiratory n resuscitation. Victim conscious w < with legs slightly raised. Vomiting covering the victim (no warming up victim calm avoid physical strain
	Dep	ending on the victim's condition: do	octor/hospital.	victim caim, avoid physical strain.
First-aid measures after inhalation	Dep : Rer	ending on the victim's condition: do nove the victim into fresh air. Respi	octor/hospital.	sult a doctor/medical service.
First-aid measures after inhalation First-aid measures after skin contact	Dep : Rer : Wa age wou victi	ending on the victim's condition: do nove the victim into fresh air. Respi sh immediately with lots of water (19 nts. Remove clothing while washing nds with sterile bandage. Consult a m to hospital.	octor/hospital. ratory problems: cons 5 minutes)/shower. D g. Do not remove clot a doctor/medical serv	sult a doctor/medical service. to not apply (chemical) neutralizing hing if it sticks to the skin. Cover ice. If burned surface > 10%: take
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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	 EXTINGUISHING MEDIA FOR SURROUNDING FIRES: All extinguishing media allowed. No unsuitable extinguishing media known.
5.2. Special hazards arising from the sub	ostance or mixture
Fire hazard	: DIRECT FIRE HAZARD. Non combustible. INDIRECT FIRE HAZARD. Promotes combustion. Reactions involving a fire hazard: see "Reactivity Hazard".

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

Explosion hazard	: INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".
Reactivity	: On burning: release of toxic and corrosive gases/vapours (nitrous vapours). 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.
5.3. Advice for firefighters	
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. Cool from behind cover/unmanned monitors. Dilute toxic gases with water spray. 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 measu	ires
6.1. Personal precautions, protective equi	pment 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	
	Equip cleanup crew with proper protection.
Emergency procedures	. Ventilate area. Stop release.
6.2. Environmental precautions	
Prevent soil and water pollution. Prevent spreading	g in sewers.
6.3. Methods and material for containmen	t and cleaning up
For containment	: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of 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. See "Material-handling" for suitable container materials. 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	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: 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. Avoid raising dust. Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
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
Incompatible products	Strong bases. combustible materials. Sodium hypochlorite.
Incompatible materials	COMPUSTIBLE MARKER AWAY EPOM: heat courses
Prohibitions on mixed storage	. NEED SUBSTANCE AWAY FROM: computible materials, reducing agents, (strong) bases
Storage area	organic materials. alcohols.
	place. Keep locked up. Unauthorized persons are not admitted. Meet the legal requirements. Keep only in the original container.
Special rules on packaging	requirements. Secure fragile packagings in solid containers.
rackaging materials	SUITADLE MATERIAL: IRON. SYNTHETIC MATERIAL

Safety Data Sheet

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1.	Control parameters		
Silver	Nitrate (7761-88-8)		
USA A	CGIH	ACGIH TWA (mg/m³)	0.01 mg/m³
USA O	SHA	OSHA PEL (TWA) (mg/m³)	0.01 mg/m ³

8.2.	Exposure controls	
Appro	priate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Mater	ials for protective clothing	: GIVE GOOD RESISTANCE: butyl rubber. neoprene. PVA.
Hand	protection	: Gloves.
Eye p	rotection	: Face shield. In case of dust production: protective goggles.
Skin a	and body protection	: Corrosion-proof clothing. In case of dust production: head/neck protection.
Respi	ratory protection	: Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus.

SECTION 9: Physical and chemical properties

1. Information on basic physical and chemical properties	
Physical state	: Solid
Appearance	: Crystalline solid.
Molecular mass	: 169.87 g/mol
Colour	: Colourless to grey. On exposure to light: dark grey to black.
Odour	: Odourless.
Odour threshold	: No data available
рН	: 7.0
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 212 °C
Freezing point	: No data available
Boiling point	: 444 °C
Flash point	: Not applicable
Self ignition temperature	: No data available
Decomposition temperature	: 444 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0.10 hPa
Relative vapour density at 20 °C	: 5.8
Relative density	: 4.3
Density	: 4352 kg/m³
Solubility	: Soluble in water. Substance sinks in water. Soluble in ammonia. Soluble in glycerol. Water: 144 g/100ml Acetone: 0.40 g/100ml
Log Pow	: 0.19 (Estimated value)
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: May intensify fire; oxidiser.
Explosive limits	: No data available
9.2. Other information	
VOC content	: Not applicable
Other properties	: Translucent. Substance has neutral reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of toxic and corrosive gases/vapours (nitrous vapours). 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.

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

10.2.	Chemical stability
Unstable	on exposure to light.
10.3.	Possibility of hazardous reactions
No additi	onal information available
10.4.	Conditions to avoid
Direct su	nlight. High temperature.
10.5.	Incompatible materials
combusti	ble materials. Strong bases. Strong reducing agents.
10.6.	Hazardous decomposition products
Nitrogen	oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	:	Harmful if swallowed.
Silver Nitrate (\f)7761-88-8		
LD50 oral rat		1173 mg/kg (Rat)
Skin corrosion/irritation	:	Causes severe skin burns and eye damage.
		рН: 7.0
Serious eye damage/irritation	:	Causes serious eye damage.
		pH: 7.0
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified
Symptoms/injuries after inhalation	:	AFTER INHALATION OF DUST: Dry/sore throat. Coughing. FOLLOWING SYMPTOMS MAY APPEAR LATER: Risk of lung oedema.
Symptoms/injuries after skin contact	:	Caustic burns/corrosion of the skin.
Symptoms/injuries after eye contact	:	Corrosion of the eye tissue. Permanent eye damage.
Symptoms/injuries after ingestion	:	AFTER ABSORPTION OF HIGH 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	:	ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: May stain the skin. Blue/grey discolouration of the skin. Inflammation/damage of the eye tissue. Visual disturbances. Possible

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	Dangerous for the environment.	
Ecology - water :	Severe water pollutant (surface w (nitrate) (Directive 98/83/EC). Hig toxic to algae. May cause eutroph	vater). Maximum concentration in drinking water: 50 mg/l hly toxic to fishes. Very toxic to invertebrates (Daphnia). Highly nication.
Silver Nitrate (7761-88-8)		
LC50 fishes 1	0.0039 mg/l (96 h; Pimephales pro	omelas; Flow-through system)
EC50 Daphnia 1	0.0006 mg/l (48 h; Daphnia magn	a; LOCOMOTOR EFFECT)
LC50 fish 2	0.006 mg/l 96 h; Salmo gairdneri	(Oncorhynchus mykiss)
EC50 Daphnia 2	0.006 mg/l (48 h; Crangon sp.)	
Threshold limit other aquatic organisms 1	0.006 mg/l (Pseudomonas putida;	; TOXICITY TEST)
Threshold limit algae 1	0.0007 mg/l (Microcystis aerugino	osa; TOXICITY TEST)
Threshold limit algae 2	0.0095 mg/l (Scenedesmus quadi	ricauda; TOXICITY TEST)
12.2. Persistence and degradability		
Silver Nitrate (7761-88-8)		
Persistence and degradability	Biodegradability: not applicable.	
10/03/2013	EN (English)	SDS ID: 75268 5/8

inflammation of the respiratory tract.

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

Silver Nitrate (7761-88-8)	
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
Silver Nitrate (7761-88-8)	
BCF fish 1	11 - 19 (Micropterus salmoides; CHRONIC)
BCF fish 2	15 - 150 (Lepomis macrochirus; CHRONIC)
Log Pow	0.19 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
12.4. Mobility in soil	

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste disposal recommendations	: Remove waste in accordance with local and/or national regulations. Recycle/reuse. Remove to an authorized dump (Class I).	
Additional information	: LWCA (the Netherlands): KGA category 06. Hazardous waste according to Directive 2008/98/EC.	
SECTION 14: Transport information	n	

In accordance with DOT	
	4400
UN-NO.(DOT)	: 1493
DOT NA no.	UN1493
14.2. UN proper shipping name	
DOT Proper Shipping Name	: Silver nitrate
Hazard labels (DOT)	: 5.1 - Oxidizing substances
	5.1
Packing group (DOT)	: II - Medium Danger
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
DOT Packaging Exceptions (49 CFR 173.xxx)	: 152
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 212
DOT Packaging Bulk (49 CFR 173.xxx)	: 242

Safety Data Sheet

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

Marine pollutant



14.3 Additional information	
Other information	: No supplementary information available.
State during transport (ADR-RID)	: as solid.
Overland transport	
Packing group (ADR)	: 1
Class (ADR)	: 5.1 - Oxidizing substances
Hazard identification number (Kemler No.)	: 50
Classification code (ADR)	: 02
Danger labels (ADR)	: 5.1 - Oxidizing substances
Orange plates	5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1
Tunnel restriction code	1493 : E
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
EmS-No. (1)	: F-A
EmS-No. (2)	: S-Q
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 25 kg
SECTION 15: Regulatory information	
15.1. US Federal regulations	

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	

15.2. International regulations

CANADA

Silver Nitrate (7761-88-8)	
Listed on the Canadian DSL (Domestic Sustances List) inventory.	
WHMIS Classification	Class C - Oxidizing Material
	Class E - Corrosive Material

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

 Ox. Sol. 2
 H272

 Skin Corr. 1B
 H314

 Aquatic Acute 1
 H400

 Aquatic Chronic 1
 H410

 10/03/2013
 H410

Safety Data Sheet

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

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

O; R8 C; R34

N; R50/53

Full text of R-phrases: see section 16

15.2.2. National regulations

Silver Nitrate (7761-88-8)

Listed on the Canadian Ingredient Disclosure List

15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Ox. Sol. 2	Oxidising Solids, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H272	May intensify fire; oxidiser
H302	Harmful if swallowed
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 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
NFPA specific hazard	: OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: F

SDS US (GHS HazCom 2012)

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