SILVER NITRATE 99.9% ACS

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Revision No: 1

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

1.1. Product identifier

Product name: SILVER NITRATE 99.9% ACS

CAS number: 7761-88-8

EINECS number: 231-853-9

Product code: GPC8109

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

Use of substance / mixture: PC21: Laboratory chemicals.

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Section 2: Hazards identification

2.1. Classification of the substance or mixture		
Classification under CLP:	Ox. Sol. 2: H272; Met. Corr. 1: H290; Skin Corr. 1B: H314; Aquatic Chronic 1: H410;	
	Aquatic Acute 1: H400	
Classification under CHIP:	O: R8; C: R34; N: R50/53	
Most important adverse effects:	May intensify fire; oxidiser. May be corrosive to metals. Causes severe skin burns and	
	eye damage. Very toxic to aquatic life with long lasting effects.	
2.2. Label elements		
Label elements under CLP:		
Hazard statements:	H272: May intensify fire; oxidiser.	
	H290: May be corrosive to metals.	
	H314: Causes severe skin burns and eye damage.	
	H410: Very toxic to aquatic life with long lasting effects.	
Signal words:	Danger	
Hazard pictograms:	GHS03: Flame over circle	

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GHS05: Corrosion

GHS09: Environmental



Precautionary statements: P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220: Keep/Store away from clothing/combustible materials.

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P370+378: In case of fire: Use dry powder or dry sand for extinction.

2.3. Other hazards

Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: SILVER NITRATE 99.9% ACS CAS number: 7761-88-8 EINECS number: 231-853-9 Contains: Formula : AgNO3 Molecular weight : 169.87 g/mol

Section 4: First aid measures

4.1. Description of first aid measures

ortant symptoms	and effects, both acute and delayed
	breathing and apply artificial respiration if necessary. Consult a doctor.
Inhalation:	Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for
	out mouth with water. Consult a doctor.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Wash
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
	immediately with plenty of soap and water. Consult a doctor.
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: No data available.

Eye contact: Severe eye irritation.

Ingestion: No data available.

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Inhalation: No data available.

Delayed / immediate effects: No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: No data available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Container explosion may occur under fire conditions.

5.3. Advice for fire-fighters

Advice for fire-fighters: Use water spray to cool unopened containers. Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Sweep up and shovel. Keep in suitable, closed containers for disposal. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13).

6.4. Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

 Handling requirements:
 Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

 Provide appropriate exhaust ventilation at places where dust is formed.

 For precautions see section 2.2. Keep away from sources of ignition - No smoking.Take

 measures to prevent the build up of electrostatic charge.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Light sensitive.Suitable packaging: Not applicable.

[cont...]

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7.3. Specific end use(s)

Specific end use(s): No special requirement.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	0.01mg/m3	-	-	-

8.1. DNEL/PNEC Values DNEL / PNEC No data available. 8.2. Exposure controls Engineering measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Hand protection: Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min 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 and good laboratory practices. Wash and dry hands. Eye protection: Face-shield. Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Environmental: Do not let product enter drains. Prevent from entering in public sewers or the immediate environment.

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Solid

Colour: Colourless

Odour: Odourless

Boiling point/range°C: 440 °C

Part.coeff. n-octanol/water: log Pow: 5

Melting point/range°C: 212 °C - dec. Relative density: 4.350 g/cm3

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: Decomposes on exposure to light. Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: Light.

10.5. Incompatible materials

Materials to avoid: Strong reducing agents. Alcohols. Ammonia. Magnesium. Strong bases.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of nitrogen oxides. In combustion emits toxic fumes of

silver/ silver oxides.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

Symptoms / routes of exposure

Skin contact: No data available.

Eye contact: Severe eye irritation.

Ingestion: No data available.

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Inhalation: No data available.

Delayed / immediate effects: No data available.

Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	0.0012	mg/l
DAPHNIA	48H EC50	0.00121	mg/l
ALGAE	48H EC50	0.0099	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Very toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations:	Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra
	care in igniting as this material is highly flammable. Offer surplus and non-recyclable
	solutions to a licensed disposal company.
Recovery operations:	Not applicable.
Disposal of packaging:	Dispose of as unused product.
NB:	The user's attention is drawn to the possible existence of regional or national
	regulations regarding disposal.
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Section 14: Transport information

14.1. UN number

UN number: UN1493

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14.2. UN proper shipping name			
Shipping name:	SILVER NITRATE		
14.3. Transport hazard class(es	s)		
Transport class:	5.1		
14.4. Packing group			
Packing group:	П		_
14.5. Environmental hazards			
Environmentally hazardous:	Yes Marine pollutant: No		
14.6. Special precautions for u			
	No special precautions.		
Tunnel code:			
Transport category:	2		
Section 15: Regulatory informa	ation		
	nmental regulations/legislation specific for the substance or mixture		
-			
Specific regulations:	This safety datasheet complies with the requirements of Regulation (EC) No.		
45.0 Chaminal Safaty Assessm	1907/2006.		
15.2. Chemical Safety Assessn			
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture		
	by the supplier.		
Section 16: Other information			
Other information			
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No		
	453/2010.		
	* indicates text in the SDS which has changed since the last revision.		
Phrases used in s.2 and 3:	H272: May intensify fire; oxidiser.		
	H290: May be corrosive to metals.		
	H314: Causes severe skin burns and eye damage.		
	H410: Very toxic to aquatic life with long lasting effects.		
	R8: Contact with combustible material may cause fire.		
	R34: Causes burns.		
	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the		
	aquatic environment.		
Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive		
	and shall be used only as a guide. This company shall not be held liable for any		
	damage resulting from handling or from contact with the above product.		