

according to Regulation (EC) No 1907/2006

	Silver nitrate, 5 g		
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SECTION 1: Identification of the s	ubstance/mixture and of the company/	undertaking	
1.1. Product identifier			
Silver nitrate, 5 g			
CAS No:	7761-88-8		
Index No:	047-001-00-2		
EC No:	231-853-9		
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised agai	<u>nst</u>	
Use of the substance/mixture			
Laboratory chemicals			
1.3. Details of the supplier of the safe	ety data sheet		
Seller			
Company name:	CONATEX-DIDACTIC Lehrmittel GmbH		
Street:	Im Forstgarten 1		
Place:	D-66459 Kirkel		
Internet:	www.conatex.com		
Supplier			
Company name:	Carbolution Chemicals GmbH		
Street:	Im Stadtwald, Gebäude A1.2		
Place:	D-66123 Saarbrücken		
Contact person:	Dr. Michael Bauer	Telephone: +49 (0)681 302-71232	
e-mail:	michael.bauer@carbolution-chemicals.de		
Internet:	www.carbolution-chemicals.de		
<u>1.4. Emergency telephone</u> number:	+49 (0)681 302-71232		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Indications of danger: O - Oxidizing, C - Corrosive, N - Dangerous for the environment R phrases: Contact with combustible material may cause fire. Causes burns. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

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

Hazard categories: Oxidising solid: Ox. Sol. 2 Skin corrosion/irritation: Skin Corr. 1B Hazardous to the aquatic environment: Aquatic Acute 1 (M-Factor = 1) Hazard Statements: May intensify fire; oxidiser. Causes severe skin burns and eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

2.2. Label elements



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Hazardous components silver nitrate	which must be listed on the label	
Signal word:	Danger	
Pictograms:	GHS05-GHS09	
Hazard statements H314 H410	Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.	
	- ,	
Precautionary statement		
Precautionary statemen P273		
	ts	
P273	ts Avoid release to the environment.	
P273 P280	ts Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	AgNO3
Molecular weight:	169,87

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
231-853-9	silver nitrate	100 %
7761-88-8	O - Oxidizing, C - Corrosive, N - Dangerous for the environment R8-34-50-53	
047-001-00-2	Ox. Sol. 2, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H272 H314 H400 H410	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air.

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Potential hazards:



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Stomach perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
-	Silver (soluble compounds as Ag)	-	0.01		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe



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dust.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

	Physical state: Colour:	solid colourless		
	Ddour:	No data available		
				Test method
p	oH-Value:		No data available	rest method
C	Changes in the physical state			
Ν	Aelting point:		212 °C	
l	nitial boiling point and boiling range:		440 °C	
S	Sublimation point:		No data available	
S	Softening point:		No data available	
F	Flash point:		No data available	
F	lammability			
	Solid:		No data available	
	Gas:		No data available	
L	ower explosion limits:		No data available	
ι	Jpper explosion limits:		No data available	
l	gnition temperature:		No data available	
4	Auto-ignition temperature			
	Solid:		No data available	
	Gas:		No data available	
١	/apour pressure:		No data available	
\	/apour pressure:		No data available	
Ľ	Density:		4,35 g/cm³	
٧	Vater solubility:		No data available	
F	Partition coefficient:		5	
\	/iscosity / dynamic:		No data available	
١	/iscosity / kinematic:		No data available	



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Flow time:	No data available	
Vapour density:	No data available	
Evaporation rate:	No data available	
Solvent separation test:	No data available	
Solvent content:	No data available	
9.2. Other information		
Solid content:	No data available	

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Toxicological data are not available.

Irritation and corrosivity

after ingestion: Irritant and corrosive effects. Potential hazards: Stomach perforation.

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fullfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

Specific effects in experiment on an animal

No data available

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN1493
14.2. UN proper shipping name:	SILVER NITRATE
14.3. Transport hazard class(es):	5.1
14.4. Packing group:	Ш
Hazard label:	5.1
Classification code:	O2
Limited quantity:	1 kg
Transport category:	2
Hazard No:	50



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Tunnel restriction code:	E	
Other applicable information (land tran	sport)	
E2		
nland waterways transport (ADN)		
<u>14.1. UN number:</u>	UN1493	
14.2. UN proper shipping name:	SILVER NITRATE	
14.3. Transport hazard class(es):	5.1	
14.4. Packing group:	II	
Hazard label:	5.1	
Classification code: Limited quantity:	O2 1 kg	
Other applicable information (inland wa	-	
E2		
Marine transport (IMDG)		
<u>14.1. UN number:</u>	UN1493	
14.2. UN proper shipping name:	SILVER NITRATE	
14.3. Transport hazard class(es):	5.1	
14.4. Packing group:	II	
Hazard label:	5.1	
Special Provisions:	-	
Limited quantity: EmS:	1 kg F-A, S-Q	
Other applicable information (marine tr		
E2	ansporty	
Air transport (ICAO)		
<u>14.1. UN number:</u>	UN1493	
14.2. UN proper shipping name:	SILVER NITRATE	
14.3. Transport hazard class(es):	5.1	
14.4. Packing group:	II	
Hazard label:	5.1	
Limited quantity Passenger:	2.5 kg	
IATA-packing instructions - Passenger:	558	
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	5 kg 562	
IATA-packing instructions - Cargo:	25 kg	
Other applicable information (air transp	_	
E2		
: Y544		
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	yes	
SECTION 15: Regulatory information		

EU regulatory information

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)



Safety Data Sheet

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National reg	ulatory information		
Water contan	ninating class (D):	3 - highly water contaminating	
SECTION 16: 0	Other information		
Relevant R-p	hrases (Number and fu	ıll text)	
08 Contact with combustible material may cause fire.			
34	34 Causes burns.		
50	50 Very toxic to aquatic organisms.		
53	53 May cause long-term adverse effects in the aquatic environment.		
Relevant H- a	and EUH-phrases (Num	iber and full text)	
11070	- Novinto	, acifu firou avidioar	

H272	May intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.

- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.