Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.07.2021

CHEMICALS, INC.

Revision: 20.07.2021

1.1 Product identifier	
Trade name: <u>Silver nitrite, 99%</u>	
Item number: 93-4719 CAS Number: 7783-99-5 EC number: 232-041-7 1.2 Relevant identified uses of the su No further relevant information avai	ubstance or mixture and uses advised against lable.
1.3 Details of the supplier of the saf Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com	ety data sheet
Further information obtainable from	m: Technical Department
1.4 Emergency telephone number: EMERGENCY: CHEMTREC: +1 (
During normal opening times: +1 (9	//8) 499-1600
SECTION 2: Hazards identifi	cation
Classification according to Regulate	ion (EC) No 1272/2008
GHS03 flame over circle Ox. Sol. 2 H272 May intensify fire GHS07	e; oxidiser.
GHS03 flame over circle Ox. Sol. 2 H272 May intensify fire GHS07 Skin Irrit. 2 H315 Causes skin irrite	e; oxidiser. ation.
GHS03 flame over circle Ox. Sol. 2 H272 May intensify fire GHS07 Skin Irrit. 2 H315 Causes skin irrita Eye Irrit. 2 H319 Causes serious e	e; oxidiser. ation. ye irritation.
GHS03 flame over circle Ox. Sol. 2 H272 May intensify fire GHS07 Skin Irrit. 2 H315 Causes skin irrita Eye Irrit. 2 H319 Causes serious e STOT SE 3 H335 May cause respin 2.2 Label elements Labelling according to Regulation (The substance is classified and label	e; oxidiser. ation. ye irritation. ratory irritation.
GHS03 flame over circle Ox. Sol. 2 H272 May intensify fire Ox. Sol. 2 H272 May intensify fire GHS07 Skin Irrit. 2 H315 Causes skin irrite Eye Irrit. 2 H319 Causes serious e STOT SE 3 H335 May cause respin 2.2 Label elements Labelling according to Regulation (The substance is classified and label Hazard pictograms	e; oxidiser. ation. ye irritation. ratory irritation. EC) No 1272/2008
GHS03 flame over circle Ox. Sol. 2 H272 May intensify fire Ox. Sol. 2 H272 May intensify fire GHS07 Skin Irrit. 2 H315 Causes skin irrita Eye Irrit. 2 H319 Causes serious e STOT SE 3 H335 May cause respin 2.2 Label elements Labelling according to Regulation (The substance is classified and label Hazard pictograms	e; oxidiser. ation. ye irritation. ratory irritation. EC) No 1272/2008
GHS03 flame over circle Ox. Sol. 2 H272 May intensify fire Ox. Sol. 2 H272 May intensify fire GHS07 Skin Irrit. 2 H315 Causes skin irrite Eye Irrit. 2 H319 Causes serious e STOT SE 3 H335 May cause respin 2.2 Label elements Labelling according to Regulation (The substance is classified and label Hazard pictograms GHS03 GHS07 Signal word Danger	e; oxidiser. ation. ye irritation. ratory irritation. EC) No 1272/2008 led according to the CLP regulation.
GHS03 flame over circle Ox. Sol. 2 H272 May intensify fire Ox. Sol. 2 H272 May intensify fire GHS07 Skin Irrit. 2 H315 Causes skin irrite Eye Irrit. 2 H319 Causes serious e STOT SE 3 H335 May cause respin 2.2 Label elements Labelling according to Regulation (The substance is classified and label Hazard pictograms	e; oxidiser. ation. ye irritation. ratory irritation. EC) No 1272/2008 led according to the CLP regulation.

CHEMICALS, INC.

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Trade name: Silver nitrite, 99%

	(Contd. of page 1)
• Hazard stateme	nts
H272 May inter	nsify fire; oxidiser.
H315 Causes sk	in irritation.
H319 Causes se	prious eye irritation.
H335 May caus	e respiratory irritation.
· Precautionary s	statements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P221	Take any precaution to avoid mixing with combustibles.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
<i>P305+P351+P</i> .	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other hazar	rds
· Results of PBT	and vPvB assessment
• PBT: Not applied	cable.
· vPvB: Not appl	icable.

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- CAS No. Description 7783-99-5 silver nitrite
- Identification number(s)
- EC number: 232-041-7

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)

GB

Safety data sheet according to 1907/2006/EC, Article 31

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Revision: 20.07.2021

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- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Not required.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

- · 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. • Information about fire - and explosion protection: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

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7783-99-5 silver nitrite
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WEL Long-term value: 0.01 mg/m³ as Ag

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 4)

(Contd. of page 2)

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.07.2021

CHEMICALS, INC

Revision: 20.07.2021

(Contd. of page 3)

Trade name: Silver nitrite, 99%

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

General Information		
Appearance:		
Form:	Powder	
Colour:	Whitish	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	140 °C	
Initial boiling point and boiling ra	nge: Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density at 20 °C:	4.453 g/cm ³	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Insoluble.	

GB

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Revision: 20.07.2021

Trade name: Silver nitrite, 99%

		(Contd. of page
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC(EC)	0.00 %	
Solids content:	100.0 %	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- Serious eye damage/irritation
- Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure
- May cause respiratory irritation.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes: Not known to be hazardous to water.

(Contd. on page 6)

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CHEMICALS, INC.

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· 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number	
ADR, IMDG, IATA	UN2627
14.2 UN proper shipping name ADR IMDG, IATA	2627 NITRITES, INORGANIC, N.O.S. NITRITES, INORGANIC, N.O.S.
14.3 Transport hazard class(es)	
ADR	
51	
Class	5
Label	5.1
IMDG, IATA	
Class	5.1 Oxidising substances.
Label	5.1
14.4 Packing group	
ADR, IMDĞ, IATA	II
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user EMS Number:	Not applicable. F-A,S-Q
Segregation groups	Nitrites and their mixtures
Stowage Category	A

(Contd. of page 5)

Safety data sheet according to 1907/2006/EC, Article 31

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	(Contd. of pag
Segregation Code	SG38 Stow "separated from" ammonium compounds.
	SG49 Stow "separated from" cyanides
	SG62 Stow "separated from" sulphur
14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1 kg
\cdot Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
IMDG	
Limited quantities (LQ)	1 kg
Excepted quantities (\widetilde{EQ})	Code: E2
· · · · · · · · · · · · · · · · · · ·	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
UN "Model Regulation":	UN 2627 NITRITES, INORGANIC, N.O.S., 5.1, II

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category P8 OXIDISING LIQUIDS AND SOLIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Ox. Sol. 2: Oxidizing solids Category 2 Shin Imit 2: Shin comparing (imitation
- Skin Irrit. 2: Skin corrosion/irritation Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3