Printing date 07/18/2021

Reviewed on 07/18/2021

1 Identification

- · Product name
- · Trade name: Silver nitrate (99.9995%-Ag) PURATREM
- Item number: 47-1325
- · CAS Number:
- 7761-88-8 • **EC number:**
- 231-853-9
- Index number: 047-001-00-2
- Details of the supplier of the safety data sheet • Manufacturer/Supplier:
- Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com
- · Information department: Technical Department
- Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

2 Hazard(s) identification

· Classification of the substance or mixture

GHS03 Flame over circle

Ox. Sol. 2 *H272 May intensify fire; oxidizer.*

GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

· Label elements

• *GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).*

• Hazard pictograms



· Signal word Danger

Hazard-determining components of labeling: silver nitrate
Hazard statements H272 May intensify fire; oxidizer. H314 Causes severe skin burns and eye damage.
Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

(Contd. on page 2)

US

Printing date 07/18/2021

CHEMICALS, INC.

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Reviewed on 07/18/2021

P21 Take any precaution to avoid mixing with combustibles. P260 Do not breathe dust/fume/gas/mist/apors/spray. P205 + P351 + P338 If in eyes: Rinse cautionsly with water for several minutes. Remove contact lenses, if pre and easy to do. Continue rinsing. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/regional/national/internati regulations. Classification system: NFPA ratings (scale 0 - 4) Image: State of the substance possesses oxidizing properties. Halth = 3 Fire = 3 Reactivity = 0 The substance possesses oxidizing properties. HMIS-ratings (scale 0 - 4) Image: State of the substance possesses oxidizing properties. HMIS-ratings (scale 0 - 4) Image: State of the substance possesses oxidizing properties. HMIS-ratings (scale 0 - 4) Image: State of the substance possesses oxidizing properties. HMIS-ratings (scale 0 - 4) Image: State of the substance possesses oxidizing properties. HMIS-ratings (scale 0 - 4) Image: State of the substance possesses oxidizing properties. HMIS-ratings (scale 0 - 4) Image: State of the substance possesses oxidizing properties. HMIS-ratings (scale 0 - 4) Image: State of the substance possesses oxidizing properties. HMIS-ratings (scale 0 - 4)		(Contd. of pag
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Printing date 07/18/2021

Reviewed on 07/18/2021

Trade name: Silver nitrate (99.9995%-Ag) PURATREM

(Contd. of page 2)

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. · 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. • Methods and material for containment and cleaning up: Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. · 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. · Protective Action Criteria for Chemicals · PAC-1: 0.047 mg/m3 · PAC-2: 0.9 mg/m3

· PAC-3:

5.4 mg/m3

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Thorough dedusting.
- Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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 receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Control parameters

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

7761-88-8 silver nitrate

- PEL Long-term value: 0.01 mg/m³ as Ag
- REL Long-term value: 0.01 mg/m³ as Ag
- *TLV Long-term value: 0.01 mg/m³* as Ag

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

· Exposure controls

· Personal protective equipment: Wear protective clothing

- 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.
- Breathing equipment: A NIOSH approved respirator in accordance with 29 CFR 1910.134.
- · 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

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance: Form:

Crystalline

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		(Contd. of page
Color:	White	
• Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point/Melting range:	212 °C (414 °F)	
Boiling point/Boiling range:	444 °C (831 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not determined.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Not determined.	
• Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not applicable.	
• Density at 20 •C (68 •F):	4.352 g/cm³ (36.31744 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
<i>Water at 20 •C (68 •F):</i>	2.192 g/l	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.0 g/l / 0.00 lb/gl	
Solids content:	100.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid No further relevant information available.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

7761-88-8 silver nitrate

Oral LD50 50 mg/kg (mouse)

· Primary irritant effect:

- on the skin: Caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.

\cdot Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

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

- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

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UN-Number DOT, IMDG, IATA	UN1493
UN proper shipping name	
DOT	Silver nitrate
IMDG, IATA	SILVER NITRATE
Transport hazard class(es)	
DOT	
OXIDZING AGENT	
Class	5.1 Oxidizing substances
Label	5.1
IMDG, IATA	
Class Label	5.1 Oxidizing substances 5.1
Packing group DOT, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Danger code (Kemler):	50
Segregation groups	Heavy metals and their salts (including their organometally
Stowage Category	compounds) A
Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 kg
	On cargo aircraft only: 25 kg
Hazardous substance:	1 lbs, 0.454 kg
IMDG	
Limited quantities (LQ)	1 kg
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
UN ''Model Regulation'':	UN 1493 SILVER NITRATE, 5.1, II

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15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

• Section 355 (extremely hazardous substances):

Substance is not listed.

• Section 313 (Specific toxic chemical listings):

Substance is listed.

• TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

 \cdot NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

Hazard-determining components of labeling: silver nitrate
Hazard statements
H272 May intensify fire; oxidizer.
H314 Causes severe skin burns and eye damage.
Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P221 Take any precaution to avoid mixing with combustibles.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Safety Data Sheet according to OSHA HCS

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	(Contd. of pa
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/internative regulations.
· Chemical safety	wassessment: A Chemical Safety Assessment has not been carried out.
16 Other inform	ation
This information	on is based on our present knowledge. However, this shall not constitute a guarantee for features and shall not establish a legally valid contractual relationship.
· Department issi	uing SDS: Technical Department.
· Contact: Techni	
• Date of prepara	tion / last revision 07/18/2021 / -
• Abbreviations a	
	péen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internat
	ous Goods by Road)
	Il Maritime Code for Dangerous Goods
DOT: US Departme	nt of Transportation
DOT: US Departme IATA: International	nt of Transportation Air Transport Association
DOT: US Departme IATA: International ACGIH: American (nt of Transportation
DOT: US Departme IATA: International ACGIH: American (EINECS: European CAS: Chemical Abs	nt of Transportation Air Transport Association Conference of Governmental Industrial Hygienists Inventory of Existing Commercial Chemical Substances tracts Service (division of the American Chemical Society)
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DOT: US Departme IATA: International ACGIH: American (EINECS: European CAS: Chemical Abs NFPA: National Fin HMIS: Hazardous M VOC: Volatile Orga LC50: Lethal conce	nt of Transportation Air Transport Association Conference of Governmental Industrial Hygienists Inventory of Existing Commercial Chemical Substances tracts Service (division of the American Chemical Society) re Protection Association (USA) Materials Identification System (USA) nuic Compounds (USA, EU) ntration, 50 percent
DOT: US Departme IATA: International ACGIH: American O EINECS: European CAS: Chemical Abs NFPA: National Fin HMIS: Hazardous M VOC: Volatile Orga LC50: Lethal conce LD50: Lethal dose,	nt of Transportation Air Transport Association Conference of Governmental Industrial Hygienists Inventory of Existing Commercial Chemical Substances tracts Service (division of the American Chemical Society) re Protection Association (USA) Materials Identification System (USA) nuic Compounds (USA, EU) ntration, 50 percent
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DOT: US Departme IATA: International ACGIH: American (EINECS: European CAS: Chemical Abs NFPA: National Fin HMIS: Hazardous M VOC: Volatile Orga LC50: Lethal conce LD50: Lethal dose, PBT: Persistent, Bid vPvB: very Persisten NIOSH: National In OSHA: Occupationa TLV: Threshold Lim PEL: Permissible E REL: Recommended	nt of Transportation Air Transport Association Conference of Governmental Industrial Hygienists Inventory of Existing Commercial Chemical Substances tracts Service (division of the American Chemical Society) re Protection Association (USA) Materials Identification System (USA) mic Compounds (USA, EU) ntration, 50 percent 50 percent soccumulative and Toxic nt and very Bioaccumulative asstitute for Occupational Safety al Safety & Health ii Value xposure Limit