Safety Data Sheet acc. to OSHA HCS

Printing date 07/23/2024

*

Reviewed on 07/23/2024

inting date 07/23/2024	Reviewed on 07/23/20
1 Identification	
· Product identifier	
• Trade name: <u>Silver Nitrate 5% w/v</u> Nitric Acid 2% v/v Soln.	
• Article number: DEL110	
• Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586	AQUA SOLUTIONS
Information department:	
Technical Coordinator Sherman Nelson shermann@aquasolutions.org • Emergency telephone number: Chemtrec: 800-424-9300	
Canutec: 613-996-6666	
GHS05 Corrosion	
	mage.
<i>GHS05 Corrosion</i> <i>Skin Corrosion 1A</i> H314 Causes severe skin burns and eye da	mage.
GHS05 Corrosion Skin Corrosion 1A H314 Causes severe skin burns and eye da Eye Damage 1 H318 Causes serious eye damage. GHS07 Acute Toxicity - Oral 4 H302 Harmful if swallowed.	mage.
Skin Corrosion 1A H314 Causes severe skin burns and eye da Eye Damage 1 H318 Causes serious eye damage. Image 2 GHS07 Acute Toxicity - Oral 4 H302 Harmful if swallowed. Image 2 Image 2 Image 2 Image 2 Image 3 Image 2 Image 4 H302 Harmful if swallowed. Image 4 Image 2 Image 4 Image 2 Image 4 Image 2 Image 4 H302 Harmful if swallowed. Image 4 Image 2 Image 4 Image 2 Image 4 Image 2 Image 4 Image 2 Image 4 Image 2<	-
GHS05 Corrosion Skin Corrosion 1A H314 Causes severe skin burns and eye da Eye Damage 1 H318 Causes serious eye damage. GHS07 Acute Toxicity - Oral 4 H302 Harmful if swallowed. Label elements	-
GHS05 Corrosion Skin Corrosion 1A H314 Causes severe skin burns and eye da Eye Damage 1 H318 Causes serious eye damage. GHS07 Acute Toxicity - Oral 4 H302 Harmful if swallowed. Label elements GHS label elements The product is classified and labeled according	-
GHS05 Corrosion Skin Corrosion 1A H314 Causes severe skin burns and eye da Eye Damage 1 H318 Causes serious eye damage. Image 1 GHS07 Acute Toxicity - Oral 4 H302 Harmful if swallowed. Image 2 Image 2 Image 2 Image 2 Image 2 Image 2 Image 3 Image 2 Image 3 Image 2 Image 4 Image 2 Image 4 Image 2 Image 5 Image 2 Image 5 Image 2 Image 4 Image 2 <	-
GHS05 CorrosionSkin Corrosion 1AH314 Causes severe skin burns and eye daEye Damage 1H318 Causes serious eye damage. \widehat{O} GHS07Acute Toxicity - Oral 4H302 Harmful if swallowed.• Label elements• GHS label elements• GHS05GHS07· GHS05· GHS05· GHS05· GHS05· GHS05· Hazard pictograms• Signal word Danger• Hazard-determining components of labeling: Silver Nitrate Nitric Acid• Hazard statements	-
Skin Corrosion 1A H314 Causes severe skin burns and eye da Eye Damage 1 H318 Causes serious eye damage. View Damage 1 H302 Harmful if swallowed. Acute Toxicity - Oral 4 H302 Harmful if swallowed. Cause I elements The product is classified and labeled accordin. Hazard pictograms View Offset Signal word Danger Hazard-determining components of labeling: Silver Nitrate Nitric Acid Hazard statements Harmful if swallowed. Causes severe skin burns and eye damage. Causes severe skin burns and eye damage.	-
Skin Corrosion 1A H314 Causes severe skin burns and eye da Eye Damage 1 H318 Causes serious eye damage. 4318 Causes	-

Printing date 07/23/2024

Reviewed on 07/23/2024

Trade name: Silver Nitrate 5% w/v Nitric Acid 2% v/v Soln.

	(1.0.1)
Do not eat, drink or smoke when using this product.	ontd. of page 1)
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Call a poison center/doctor if you feel unwell.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and	easy to do.
Continue rinsing. Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Wash contaminated clothing before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 0	
3 0 Reactivity = 0	
UMIS nations (coale 0 4)	
· HMIS-ratings (scale 0 - 4)	
$\begin{array}{c c} \text{HEALTH} & 2 \end{array} Health = 2 \end{array}$	
FIRE 0 $Fire = 0$	
REACTIVITY Reactivity = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
• PBT: Not applicable.	
v PvB: Not applicable.	
3 Composition/information on ingredients	
5 Composition/information on ingreatents	
· Chemical characterization: Mixtures	
• Description: Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:	
CAS: 7761-88-8 Silver Nitrate	4.768%
CAS: 7697-37-2 Nitric Acid	2.867%
• Table of Nonhazardous Ingredients	
CAS: 7732-18-5 Water	92.365%

4 First-aid measures

· Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- *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. Then consult a doctor.

(Contd. on page 3)

US

Printing date 07/23/2024

Trade name: Silver Nitrate 5% w/v Nitric Acid 2% v/v Soln.

(Contd. of page 2)

Reviewed on 07/23/2024

• *After swallowing: Immediately call a doctor.*

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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

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. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Reference to other sections See Section 7 for information on safe handling. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: CAS: 7761-88-8 Silver Nitrate 0.047 mg CAS: 7697-37-2	
 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. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Reference to other sections See Section 7 for information on safe handling. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: CAS: 7761-88-8 Silver Nitrate 	
 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. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Reference to other sections See Section 7 for information on safe handling. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: CAS: 7761-88-8 Silver Nitrate 	
Inform respective authorities in case of seepage into water course or sewage system.Dilute with plenty of water.Do not allow to enter sewers/ surface or ground water.Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent.Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.Reference to other sections See Section 7 for information on safe handling. See Section 13 for disposal information.Protective Action Criteria for ChemicalsPAC-1: CAS: 7761-88-80.047 mg	
Inform respective authorities in case of seepage into water course or sewage system.Dilute with plenty of water.Do not allow to enter sewers/ surface or ground water.Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).Use neutralizing agent.Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.Reference to other sections See Section 7 for information on safe handling. See Section 13 for disposal information.Protective Action Criteria for Chemicals· PAC-1: CAS: 7761-88-80.047 mg	
Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 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: CAS: 7761-88-8 Silver Nitrate 0.047 mg	
Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 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: CAS: 7761-88-8 Silver Nitrate 0.047 mg	
 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 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 CAS: 7761-88-8 Silver Nitrate 	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to section 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: CAS: 7761-88-8 Silver Nitrate	
Use neutralizing agent. Dispose contaminated material as waste according to section 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: CAS: 7761-88-8 Silver Nitrate 0.047 mg	
Dispose contaminated material as waste according to section 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 ChemicalsCAS: 7761-88-8Silver Nitrate0.047 mg	
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: CAS: 7761-88-8 Silver Nitrate	
• 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: CAS: 7761-88-8 Silver Nitrate 0.047 mg	
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: CAS: 7761-88-8 Silver Nitrate 0.047 mg	
See Section 8 for information on personal protection equipment. See Section 13 for disposal information. • Protective Action Criteria for Chemicals • PAC-1: CAS: 7761-88-8 Silver Nitrate 0.047 mg	
• Protective Action Criteria for Chemicals • PAC-1: CAS: 7761-88-8 Silver Nitrate 0.047 mg	
• Protective Action Criteria for Chemicals • PAC-1: CAS: 7761-88-8 Silver Nitrate 0.047 mg	
CAS: 7761-88-8 Silver Nitrate 0.047 mg	
CAS: 7697-37-2 Nitric Acid 0.16 ppn	g/m^3
	l
· PAC-2:	
CAS: 7761-88-8 Silver Nitrate 0.9 mg	/ 3
CAS: 7697-37-2 Nitric Acid 24 pp	τ/m^3
• PAC-3:	
CAS: 7761-88-8 Silver Nitrate 5.4 mg	
CAS: 7697-37-2 Nitric Acid 92 pp	n

(Contd. on page 4)

Printing date 07/23/2024

Reviewed on 07/23/2024

Trade name: Silver Nitrate 5% w/v Nitric Acid 2% v/v Soln.

(Contd. of page 3)

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- 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.

8 Exposure controls/personal protection

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

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

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

CAS: 7697-37-2 Nitric Acid

- PEL Long-term value: 5 mg/m³, 2 ppm
- REL Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm
- TLV Short-term value: (4) NIC-0.025 ppm Long-term value: (2) ppm NIC-A4

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

• 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.

Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• 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.

(Contd. on page 5)

⁻ US

Printing date 07/23/2024

Trade name: Silver Nitrate 5% w/v Nitric Acid 2% v/v Soln.

Reviewed on 07/23/2024

(Contd. of page 4)

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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

· Body protection: Protective work clothing

9 Physical and chemical properties

Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Odorless No. 1	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	<2	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.04857 g/cm³ (8.75032 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	

Printing date 07/23/2024

Reviewed on 07/23/2024

Trade name: Silver Nitrate 5% w/v Nitric Acid 2% v/v Soln.

		(Contd. of page 5)
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
· Solvent content: Water: VOC content:	92.4 % 0.00 % 0.0 g/l / 0.00 lb/gal	
Solids content:	4.8 %	
• 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.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 1,049 mg/kg (mouse)

Inhalative LC50/4h 105 mg/l

· Primary irritant effect:

- on the skin: Strong caustic effect on skin and mucous membranes.
- on the eye:
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Corrosive

Irritant

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)

None of the ingredients is listed.

(Contd. on page 7)

US

Printing date 07/23/2024

Reviewed on 07/23/2024

Trade name: Silver Nitrate 5% w/v Nitric Acid 2% v/v Soln.

(Contd. of page 6)

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is 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:

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even extremely small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· 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.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT, IMDG, IATA	UN1760
	0111700
· UN proper shipping name	
·DOT	Corrosive liquids, n.o.s. (Nitric Acid)
· IMDG	CORROSIVE LIQUID, N.O.S. (Nitric Acid, Silver Nitrate)
	MARINE POLLUTANT
·IATA	CORROSIVE LIQUID, N.O.S. (Nitric Acid)

Printing date 07/23/2024

Reviewed on 07/23/2024

Trade name: Silver Nitrate 5% w/v Nitric Acid 2% v/v Soln.

	(Contd. of page
Transport hazard class(es)	
DOT	
N. A.	
Class Label	8 Corrosive substances 8
	0
IMDG	
Class	8 Corrosive substances
Label	8
ΙΑΤΑ	
a a a a a a a a a a a a a a a a a a a	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: Silve
	Nitrate
Marine pollutant:	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	(SGG1) Acids, (SGG7) heavy metals and their salts (includin
Stowage Category	their organometallic compounds) A
Stowage Calegory Stowage Code	<i>SW2 Clear of living quarters.</i>
Transport in bulk according to Annex II of	7 01
MARPOL73/78 and the IBC Code	Not applicable.
	**
Transport/Additional information:	
DOT Oranita limitationa	Ou naganage given affrail 5 I
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
IMDC	
IMDG Limited quantities (LQ)	5L
Excepted quantities (EQ)	SL Code: El
Exception quantumes (EQ)	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml

Printing date 07/23/2024

Reviewed on 07/23/2024

(Contd. of page 8)

Trade name: Silver Nitrate 5% w/v Nitric Acid 2% v/v Soln.

· UN "Model Regulation":

UN 1760 CORROSIVE LIQUID, N.O.S. (NITRIC ACID), 8, III

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

Section 355 (extremely hazardous substances):	
CAS: 7697-37-2 Nitric Acid	
• Section 313 (Specific toxic chemical listings):	
CAS: 7761-88-8 Silver Nitrate	
CAS: 7697-37-2 Nitric Acid	
• TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Silver Nitrate	ACTIVE
Nitric Acid	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
• Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
• Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· Carcinogenic categories	
· FPA (Environmental Protection Agency)	

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

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

None of the ingredients is listed.

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



· Signal word Danger

(Contd. on page 10)

(Contd. of page 9)

Safety Data Sheet acc. to OSHA HCS

Printing date 07/23/2024

Trade name: Silver Nitrate 5% w/v Nitric Acid 2% v/v Soln. Reviewed on 07/23/2024

· Hazard-determining components of labeling: Silver Nitrate Nitric Acid · Hazard statements Harmful if swallowed. Causes severe skin burns and eye damage. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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: Environment protection department.

· Contact:

Date of Preparation / Last Revision: • Date of preparation / last revision Revision 1.2, 07-23-2024: Reviewed SDS for accuracy. STN/GW Revision 0.0, 11-23-2016: Creation date for SDS. STN 07/23/2024 / 1.1

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL:** Recommended Exposure Limit Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Corrosion 1A: Skin corrosion/irritation - Category 1A

(Contd. on page 11)

⁻ US

Printing date 07/23/2024

Trade name: Silver Nitrate 5% w/v Nitric Acid 2% v/v Soln.

(Contd. of page 10)

Reviewed on 07/23/2024

Eye Damage 1: Serious eye damage/eye irritation – Category 1 · * *Data compared to the previous version altered.*

US –