

SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

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Trade name:	SILVER NITRATE, CRYSTALS		
Product code:	SNP-P-X**	Date of compilation:	10 March 2017
		Version:	2

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

1.1.	Product identifier	
	Trade name:	SILVER NITRATE, CRYSTALS
	Chemical name:	-
	Catalogue number:	SNP-P-X**
1.2.	Relevant identified uses of the substance or mixture and uses advised against	
	Uses:	For anatomic pathology.
	Uses advised against:	Only the identified uses are advised.
	Reasons why uses advised against:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes.
1.3.	Details of the supplier of the safety data sheet	
	Supplier:	BioGnost Ltd.
	Address:	Medjugorska 59, Zagreb
	Telephone number :	+385 1 2409997
	Telefax:	+385 1 2404039
	e-mail of competent person:	vladimir.ramljak@biognost.hr
	National contact:	Vladimir Ramljak
1.4.	Emergency telephone numbers	
	National Protection and Rescue Directorate:	112
	Medical information:	+385 1 2348 342
	Other information:	-

SECTION 2. Hazards identification

2.1.	Classification of the substance or mixture	
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)	
	Hazard class and category code:	Hazard statement*:
	Oxidizing solid 2	H272
	Corrosive to metals 1	H290
	Skin corrosion 1B	H314
	Acute aquatic toxicity 1	H400
	Chronic aquatic toxicity 1	H410
2.1.2.	Additional information	
	-	
*For full text of Hazard- and EU Hazard-statements: see Section 16.		
2.2.	Label elements	
	Product identification:	SILVER NITRATE, CRYSTALS
	Identification no.:	-

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Authorization no.:	-
Hazard pictograms:	<p align="center">  GHS03  GHS05  GHS09 </p>
Signal word:	Danger
Hazard statement:	<p>H272 May intensify fire; oxidizer. H290 May be corrosive to metals. H314 Causes severe burns and eye damage. H400 Very toxic to aquatic life with long lasting effects.</p>
Precautionary statement:	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 Keep/Store away from clothing/ combustible materials. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370+P378 In case of fire: Use dry powder or dry sand to extinguish.</p>
Supplemental hazard information (EU):	-
2.3. Other hazards	-

SECTION 3. Composition/information on ingredients				
CAS/ EC/ Index no.	REACH registration number	Weight % content (or range)	Identification name	Classification according to (EC)1272/2008 (CLP)

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7761-88-8/ 231-853-9/ 047-001-00-2	-	≤ 50	Silver nitrate	Oxidizing solid 2; H272 Corrosive to metals 1; H290 Skin corrosion 1B; H314 Acute aquatic toxicity 1; H400 Chronic aquatic toxicity 1; H410
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SECTION 4. First aid measures		
4.1.	Description of first aid measures	
	General notes:	Consult a physician. Show this safety data sheet to the doctor in attendance.
	Following inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
	Following skin contact:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
	Following eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
	Following swallowing:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
	Self-protection of the first aider	-
4.2.	Most important symptoms and effects, both acute and delayed	
	After inhalation:	Depending on concentration and exposure time, inhalation of SN dusts might cause acute irritations of the respiratory tract, and also possible lung damage.
	After skin contact:	Depending on the individual concentration, SN dusts and solutions cause irritative to severely corrosive effects on mucosa and skin.
	After eye contact:	Depending on the individual concentration SN solutions cause severe eye damage, and some cases entail permanent corneal turbidities. Typical symptoms include rapid swelling of the conjunctiva and lids with bloody secretions from the conjunctival sac.
	After swallowing:	After oral intake of high doses: gastrointestinal complaints, disorders of the cardiovascular system and CNS dysfunctions.
4.3.	Indication of any immediate medical attention and special treatment needed	
	-	

SECTION 5. Firefighting measures	
5.1.	Extinguishing media

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	Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
	Unsuitable extinguishing media:	No information available
5.2.	Special hazards arising from the substance or mixture	
	Hazardous byproducts of fire:	In the case of inclusion in an ambient fire hazardous substances can be released - nitrous gases (nitric oxides).
5.3.	Advice for firefighters	
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray, in order to prevent explosion.	
5.4.	Additional information	
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.	

SECTION 6. Accidental release measures		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel:	
	Protective equipment:	Use personal protective equipment (see Section 8).
	Accident prevention methods:	Evacuate members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. Remove all sources of sparks and ignition. Do not smoke.
	Emergency procedures:	Mark the area using proper signs.
6.1.2.	Advice for emergency responders:	
	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).	
6.2.	Environmental precautions:	
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.	
6.3.	Methods and materials for containment and cleaning up	
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth, vermiculite). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and involved materials with water.
6.3.3.	Other information:	Do not use sawdust, old cleaning rags, and tools that may cause sparks.
6.4.	Reference to other sections	

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SECTION 7. Handling and storage	
7.1.	Precautions for safe handling
7.1.1.	Protection measures
	Measures to prevent fire: Use in well ventilated storage rooms. Keep away from sources of heat and ignition. Carry out measures for preventing static electricity.
	Measures to prevent aerosol and dust formation: Secure proper ventilation.
	Measures to protect the environment: Prevent spilling into the sewage system and waterways.
	Other measures: -
7.1.2.	Advice on general occupational hygiene:
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.
7.2.	Conditions for safe storage, including any incompatibilities
	Technical measures and storage conditions: Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C. Light sensitive.
	Packaging materials: Manufacturer's original packaging.
	Requirements for storage rooms and vessels: Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment: The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions: Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 9).
7.3.	Specific end use(s)
	Recommendations: -
	Industrial sector specific solutions: -

SECTION 8. Exposure controls/personal protection				
8.1.	Control parameters			
Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values
		ppm	mg/m ³	

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Substance: -

EC No: - CAS No.: -

DNEL

Industrial

Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	-	-	-	-
Inhalation	-	-	-	-
Dermal	-	-	-	-

Critical physical parameters: solubility, flammability, corrosivity: -

Consumer

Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	-	-	-	-
Inhalation	-	-	-	-
Dermal	-	-	-	-

PNEC

Environmental protection target	PNEC
Fresh water	No information available
Fresh water sediments	No information available
Salt water	No information available
Salt water sediments	No information available
Food chain	No information available
Microorganisms in sewage treatment	No information available
Soil (agricultural)	No information available
Air	No information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Substance/mixture related measures to prevent exposure during identified use:	Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.
Structural measures to prevent exposure:	No information available
Organizational measures to prevent exposure:	Organization of work in order to reduce other worker's influence during work process.

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	Technical measures to prevent exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.
8.2.2.	Personal protection equipment	
8.2.2.1.	Eye and face protection:	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
8.2.2.2.	Skin protection	
	Hand protection:	Handle with nitrile gloves. Gloves must be inspected prior to use. 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.
	Other skin protection:	Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration amount of the dangerous substance at the specific workplace.
8.2.2.3.	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).
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organizational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

SECTION 9. Physical and chemical properties			
9.1.	Information on basic physical and chemical properties		
		Value	Method
	Physical state:	Solid	No information available
	Color:	Colorless	No information available
	Odor	No information available	No information available

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	Odor threshold:	No information available	No information available
	pH:	No information available	No information available
	Melting point/freezing point:	212 °C	No information available
	Initial boiling point and boiling range:	440 °C	No information available
	Flash point:	No information available	No information available
	Evaporation rate:	No information available	No information available
	Flammability (solid, gas):	No information available	No information available
	Upper/lower flammability or explosive limits:	No information available	No information available
	Vapour pressure:	No information available	No information available
	Vapour density:	No information available	No information available
	Relative density	No information available	No information available
	Bulk density:	No information available	No information available
	Solubility(ies):	Completely soluble in water	No information available
	Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
	Auto-ignition temperature:	No information available	No information available
	Decomposition temperature:	No information available	No information available
	Viscosity:	No information available	No information available
	Explosive properties:	No information available	No information available
	Oxidising properties:	The substance or mixture is classified as oxidizing with the category 2. The substance or mixture is classified as oxidizing with the category 2.	No information available
9.2.	Other information		
	-		

SECTION 10.: Stability and reactivity		
10.1.	Reactivity:	See subsections 10.3 through 10.5.
10.2.	Chemical stability:	Stable under recommended storage conditions. Decomposes on exposure to light.
10.3.	Possibility of hazardous reactions:	No information available
10.4.	Conditions to avoid:	Light.
10.5.	Incompatible materials:	Strong reducing agents, alcohols, ammonia, magnesium, strong bases, strong reducing agents, alcohols, ammonia, magnesium, strong bases
10.6.	Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions. Nitrogen oxides (NOx), Silver/silver oxides.

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SECTION 11. Toxicological information					
11.1. Information on toxicological effects					
Acute toxicity:					
Route of exposure:	Method	Species	Effective Dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral	No information available	rat	LD ₅₀	No information available	-
Dermal	No information available	rabbit	LD ₅₀	No information available	-
Inhalation	No information available	rat	LC ₅₀	No information available	-
Specific target organ toxicity - single exposure (STOT-SE):					
	Specific effects	Target organ		Note	
Oral	No information available	No information available		-	
Dermal	No information available	No information available		-	
Inhalation	No information available	No information available		-	
Aspiration hazard:					
No information available.					
Irritation and corrosion					
	Exposure time	Species	Evaluation	Method	Note
Skin corrosion/irritation:	-	-	-	-	Causes skin corrosion
Serious eye damage/irritation:	-	-	-	-	Causes serious eye damage.
Sensitization					
Skin sensitization:		No information available			
Respiratory sensitization:		No information available			
Symptoms related to the physical, chemical and toxicological characteristics					
Oral exposure:		No information available			
Dermal exposure:		No information available			
Inhalation exposure:		No information available			
Eye exposure:		No information available			

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Repeated dose toxicity (subacute, subchronic, chronic)						
	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	-				
Subacute dermal	No information available	-				
Subacute inhalation	No information available	-				
Subchronic oral	No information available	-				
Subchronic dermal	No information available	-				
Subchronic inhalation	No information available	-				
Chronic oral	No information available	-				
Chronic dermal	No information available	-				
Chronic inhalation	No information available	-				
Specific target organ toxicity - repeated exposure (STOT-RE):						
	Specific effects	Target organ	Note			
Subacute oral	No information available	No information available	-			
Subacute dermal	No information available	No information available	-			
Subacute inhaling	No information available	No information available	-			
Subchronic oral	No information available	No information available	-			
Subchronic dermal	No information available	No information available	-			

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Subchronic inhaling	No available information	No information available	-
Chronic oral	No available information	No information available	-
Chronic dermal	No available information	No information available	-
Chronic inhaling	No available information	No information available	-

CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)	
Carcinogenicity:	No information available
Mutagenicity <i>In-vitro</i> :	No information available
Genotoxicity:	No information available
Mutagenicity <i>In-vivo</i> :	No information available
Germ cell mutagenicity:	No information available
Reproductive toxicity:	No information available
Summary of evaluation of the CMR properties:	No information available

11.2.	Practical experiences:
	Classification observations : No information available
	Other observations: No information available
11.3.	General notes:
	-

SECTION 12. Ecological information

12.1.	Toxicity					
Acute (short-term) toxicity	Dose	Exposure time	species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	Fish (<i>Pimephales promelas</i>)	Semi-static test LC ₅₀	0,0012 mg/L	-
Crustacea:	EC ₅₀	48 hours	water flea (<i>Daphnia magna</i>)	Static-test EC ₅₀	0,00121 mg/L	-
Algae/aquatic plants:	IC ₅₀	8 days	algae	No information available	No information available	-
Other organisms:	-	-	-	-	-	-

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Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants:	IC ₅₀	72 hours	No information available	No information available	No information available	-
Other organisms:	-	-	-	-	-	-

12.2. Persistence and degradability

Abiotic degradation						
	Degradation half-lives		Method		Evaluation	Note
Marine water	-	-	-	-	-	-
Fresh water	-	-	-	-	-	-
Air	-	-	-	-	-	-
Soil	-	-	-	-	-	-

Biodegradation

% Degradation	Time (days)	Method	Evaluation	Note
No information available				

12.3. Bioaccumulative potential

Octanol/water partition coefficient (log Pow):						
Value	Concentration	pH	°C	Method	Evaluation	Note
No information available	No information available	-	-	No information available	No information available	No information available

Bioconcentration Factor (BCF)

Value	Species	Method	Evaluation	Note
No information available	No information available	No information available	No information available	-

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Chronic ecotoxicity

Value	Dose	Exposure time	Species	Method	Evaluation	Note
Chronic toxicity on fish	LC ₅₀	No information available	No information available	No information available	No information available	-
Chronic toxicity on Crustacea (Daphnia)	EC ₅₀	No information available	No information available	No information available	No information available	-

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12.4. Mobility in soil

Known or predicted distribution in environmental compartments:
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No information available

Surface tension:

Value	°C	Concentration	Method	Note
No information available	No information available	No information available	No information available	-

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Adsorption / desorption

Transport	A/D coefficient Henry's constant	log Kow	Evaporation rate	Method	Note
Soil-Water	No information available	No information available	No information available	No information available	-
Water-Air	No information available	No information available	No information available	No information available	-
Soil-Air	No information available	No information available	No information available	No information available	-

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12.5. Results of PBT and vPvB assessment

No information available

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12.6. Other adverse effects

No information available

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SECTION 13. Disposal considerations	
13.1.	Waste treatment methods
13.1.1.	Product/packaging disposal:
	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.
13.1.2.	Waste codes/waste designations according to law:
	15 01 10: packaging that contains residual hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.
13.1.6.	Relevant Community provisions:
	-
SECTION 14. Transport information	
	Transporting/shipment by road (ADR)
UN number	3077
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.(silver nitrate)
Transport hazard classes:	9
Packing group:	III
Environmental hazards:	Yes
Special precautions for user:	-
	Transporting/shipment by rail (RID)
UN number	3077
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.(silver nitrate)
Transport hazard classes:	9

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Packing group:	III
Environmental hazards:	Yes
Special precautions for user:	-
Transporting/shipment by inland waterways (ADN)	
UN number	3077
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.(silver nitrate)
Transport hazard classes:	9
Packing group:	III
Environmental hazards:	Yes
Special precautions for user:	-
Transporting/shipment by sea (IMDG)	
UN number	3077
UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.(silver nitrate)
Transport hazard classes:	9
Packing group:	III
Environmental hazards:	Yes
Special precautions for user:	-
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:	-
Transporting/shipment by air (ICAO-TI/IATA-DGR)	
UN number	3077
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s.(silver nitrate)
Class:	9
Packing group:	III
Environmentally hazardous:	Yes
Special precautions for user:	-
Further information:	
	Packages smaller than or equal to 5 kg or L, not dangerous goods of class 9.

SECTION 15. Regulatory information	
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
	EU regulations
	Authorisation and/or restrictions on use
	Authorisations: -
	Restrictions: -

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	Other EU regulations:	<p>EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH); EC Regulation No. 2037/2000 of the European Parliament and Council of 29 June 2000 on ozone-depleting substances; EC Regulation No. 689/2008 of the European Parliament and Council of 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council of 29 April 2004 on persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives</p>
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)	
	National legislation:	<p>Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Transport of Hazardous Substances Act</p>
15.2.	Chemical safety assessment	
	None	

SECTION 16. Other information												
16.1.	Indication of changes:	-										
16.2.	Abbreviations and acronyms:	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">PBT</td> <td>Stable, bioaccumulative and toxic</td> </tr> <tr> <td>vPvB</td> <td>Strongly stable and strongly bioaccumulative.</td> </tr> <tr> <td>LD₅₀</td> <td>Lethal dose, 50%</td> </tr> <tr> <td>LC₅₀</td> <td>Lethal concentration, 50%</td> </tr> <tr> <td>STOT-SE</td> <td>Specific target organ toxicity – single exposure</td> </tr> </table>	PBT	Stable, bioaccumulative and toxic	vPvB	Strongly stable and strongly bioaccumulative.	LD ₅₀	Lethal dose, 50%	LC ₅₀	Lethal concentration, 50%	STOT-SE	Specific target organ toxicity – single exposure
PBT	Stable, bioaccumulative and toxic											
vPvB	Strongly stable and strongly bioaccumulative.											
LD ₅₀	Lethal dose, 50%											
LC ₅₀	Lethal concentration, 50%											
STOT-SE	Specific target organ toxicity – single exposure											
16.3.	Key literature references and source of data:	-										
16.4.	Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)											
	Classification	Classification procedure										
	-	-										
16.5.	Relevant H statements (number and full text)											

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According to Regulation (EC) No. 1907/2006

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Trade name:	SILVER NITRATE, CRYSTALS				
Product code:	SNP-P-X**	Date of compilation:	10 March 2017	Version:	2

	H	272	May intensify fire; oxidizer.
	:	290	May be corrosive to metals.
		314	Causes severe burns and eye damage.
		400	Very toxic to aquatic life
		410	Very toxic to aquatic life with long lasting effects.
16.6.	Training advice:		-
16.7.	Further notice:		** "X" in the product code marks different volumes (different packaging of the product). We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.

ANNEX: Exposure scenario resulting to Chemical safety assessment
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