

Trade name: Argenti nitras solutio 1%

Substance number: 330130

Version: 2 / CH

Date revised: 17.12.2018

Replaces Version: 1 / CH

Print date: 04.10.19

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

1.1. Product identifier

Argenti nitras solutio 1%

Item No. 33013000

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Aquatic Chronic 3 H412

Skin Irrit. 2 H315

Eye Irrit. 2 H319

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P264.1 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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P501.3 lenses, if present and easy to do. Continue rinsing.
Disposal in compliance with local and national regulations.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Argenti nitras solutio 1%
Alcoholic solution

Hazardous ingredients

Silver nitrate

CAS No.	7761-88-8
EINECS no.	231-853-9
Concentration	>= 1 < 3 %
Classification (Regulation (EC) No. 1272/2008)	
	Ox. Sol. 2 H272
	Skin Corr. 1B H314
	Aquatic Acute 1 H400
	Aquatic Chronic 1 H410

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Drink water in small gulps. Do not induce vomiting. Take medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

Causes very strong irritations of the eyes, skin and mucous membranes. Gastrointestinal complaints

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings, Carbon dioxide, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture

Carbon dioxide (CO₂); Carbon monoxide (CO)

5.3. Advice for firefighters

Special protective equipment for fire-fighting

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Use self-contained breathing apparatus. Wear protective clothing.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Do not discharge into surface waters/groundwater.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes and skin. Wear protective equipment

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities**Recommended storage temperature**

Value	15	-	25	°C
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Requirements for storage rooms and vessels

Keep only in original packaging.

Hints on storage assembly

Do not store together with foodstuffs.

Further information on storage conditions

Protect from light.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****Silver nitrate**

List	SUVA	
Type	MAK	
Value	0,01	mg/m ³
Short term exposure limit	0,02	mg/m ³
Status: 2017;	Remarks: HautKT HU; NIOSH, OSHA	

8.2. Exposure controls**General protective and hygiene measures**

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Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid contact with skin and eyes. Observe the usual precautions for handling chemicals.

Respiratory protection

Breathing apparatus in the event of aerosol, mist or fume formation.

Hand protection

necessary

Appropriate Material nitrile rubber - NBR
Material thickness \geq 0.11 mm

Eye protection

Tightly fitting safety glasses

Body protection

Protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	liquid
Colour	colourless
Odour	odourless
pH value	
Value	4 to 5
Temperature	20 °C
Melting point	
Remarks	not determined
Initial boiling point and boiling range	
Value	appr. 100 °C
Flash point	
Remarks	Not applicable
Flammability (solid, gas)	
Remarks	Not applicable
Vapour pressure	
Value	23 hPa
Density	
Value	1.05 g/cm ³
Solubility in water	
Remarks	Completely miscible

9.2. Other information**Other information**

The product is not combustible. The product is not dangerous for explosions.

SECTION 10: Stability and reactivity**10.2. Chemical stability**

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.5. Incompatible materials

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None

10.6. Hazardous decomposition products

None known

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity****Argenti nitras solutio 1%**

Reference substance	Silver nitrate		
Species	rat		
LD50	1173		mg/kg

Skin corrosion/irritation**Argenti nitras solutio 1%**

Remarks	slightly irritating (skin)
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Serious eye damage/irritation**Argenti nitras solutio 1%**

Remarks	Irritates the eyes.
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Sensitization**Argenti nitras solutio 1%**

evaluation	non-sensitizing
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Mutagenicity**Argenti nitras solutio 1%**

Remarks	No information available.
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Reproductive toxicity**Argenti nitras solutio 1%**

Remarks	Warning - substance not yet fully tested.
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Carcinogenicity**Argenti nitras solutio 1%**

Remarks	No data available.
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Specific Target Organ Toxicity (STOT)**Argenti nitras solutio 1%**

evaluation	No indications of STOT effects are available.
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SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity****Argenti nitras solutio 1%**

Reference substance	Silver nitrate		
Species	golden orfe (Leuciscus idus)		
LC50	0.029		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Daphnia toxicity**Argenti nitras solutio 1%**

Reference substance	Silver nitrate
Species	Daphnia magna

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EC50	0.002	mg/l
Duration of exposure	48 h	

Algae toxicity**Argenti nitras solutio 1%**

Reference substance	Silver nitrate	
Species	Scenedesmus quadricauda	
IC50	0.01	mg/l

Bacteria toxicity**Argenti nitras solutio 1%**

Reference substance	Silver nitrate	
Species	Pseudomonas putida	
EC0	0.006	mg/l

12.2. Persistence and degradability**General information**

For this subsection there is no ecotoxicological data available on the product as such.

12.3. Bioaccumulative potential**General information**

For this subsection there is no ecotoxicological data available on the product as such.

12.4. Mobility in soil**General information**

For this subsection there is no ecotoxicological data available on the product as such. Do not allow it to reach soil, ground water, water bodies or sewage system. Harmful to aquatic life. May cause long lasting harmful effects to aquatic life.

12.5. Results of PBT and vPvB assessment**General information**

Not applicable

12.6. Other adverse effects**General information**

For this subsection there is no ecotoxicological data available on the product as such.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code	No not dispose with rubbish.
Disposal in compliance with local and national regulations.	
EWC waste code	Should not be released into the sanitary sewer system.
Dispose of as hazardous waste.	

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	-		
14.1. UN number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver nitrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver nitrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver nitrate)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant 	 ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 3

Remarks Classification according to Annex 4 VwVwS

SECTION 16: Other information

Hazard statements listed in Chapter 3

H272 May intensify fire; oxidizer.
 H314 Causes severe skin burns and eye damage.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Acute 1 Hazardous to the aquatic environment, acute, Category 1
 Aquatic Chronic 1 Hazardous to the aquatic environment, chronic, Category 1
 Ox. Sol. 2 Oxidising solid, Category 2
 Skin Corr. 1B Skin corrosion, Category 1B

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Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.