

Revision Date 27-Jan-2011

Revision Number 1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Description:

Silver, 99.9%, (trace metal basis), wire, 2.0 mm diam.

Cat No.

317720000; 317720010

Synonyms

Argentum.

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use

Laboratory chemicals

Uses advised against

No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

E-mail address

begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300

CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Not hazardous

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

R-phrases(s)

none

Label Elements

Signal Word

None

Hazard Statements

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SECTION 2. HAZARDS IDENTIFICATION

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Silver 7440-22-4	EEC No. 231-131-3	100	7440-22-4	-	-	-

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

Ingestion

Clean mouth with water. Get medical attention.

Inhalation

Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

Notes to Physician

Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Non-combustible.

Advice for fire-fighters

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As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Component

Silver

European Union	The United Kingdom	France	Belgium	Spain
TWA: 0.1 mg/m ³ 8 hr	STEL: 0.3 mg/m ³ 15 min TWA: 0.1 mg/m ³ 8 hr	VME: 0.1 mg/m ³ 8 heures. indicative limit	TWA: 0.1 mg/m ³ 8 uren	VLA-ED: 0.1 mg/m ³ 8 horas

Component

Silver

Italy	Germany	Portugal	The Netherlands	Finland
TWA: 0.1 mg/m ³ 8 ore.	MAK: 0.1 mg/m ³ 8 Stunden. inhalable fraction Peak: 0.8 mg/m ³ TWA: 0.1 mg/m ³ 8 Stunden. inhalable fraction exposure factor 8	TWA: 0.1 mg/m ³ 8 horas	TWA: 0.1 mg/m ³ 8 uren	TWA: 0.1 mg/m ³ 8 tunteina

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Component
Silver

Austria	Denmark	Switzerland	Poland	Norway
STEL: 0.1 mg/m ³ 15 Minuten TWA: 0.1 mg/m ³ 8 Stunden Ceiling: 0.1 mg/m ³	TWA: 0.01 mg/m ³ 8 timer	STEL: 0.8 mg/m ³ 15 Minuten MAK: 0.1 mg/m ³ 8 Stunden	NDS: 0.05 mg/m ³ 8 godzinach	TWA: 0.1 mg/m ³ 8 timer STEL: 0.3 mg/m ³ 15 minutter. metal dust and fume

Component
Silver

Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³ 8 satima.	TWA: 0.1 mg/m ³ 8 hr.	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³ 8 hodinách. Ceiling: 0.3 mg/m ³

Component
Silver

Estonia	Gibraltar	Greece	Hungary	Iceland
TWA: 0.1 mg/m ³ 8 tundides.	TWA: 0.01 mg/m ³ 8 hr	TWA: 0.1 mg/m ³	STEL: 0.4 mg/m ³ 15 percekben. TWA: 0.1 mg/m ³ 8 órában.	TWA: 0.01 mg/m ³ 8 klukkustundum. dust and powder Ceiling: 0.02 mg/m ³ dust and powder

Component
Silver

Latvia	Lithuania	Luxembourg	Malta	Romania
TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³ Ag		TWA: 0.1 mg/m ³	

Component
Silver

Russia - TWA	Slovak Republic	Slovenia	Sweden	Turkey
MAC: 1 mg/m ³	0.1	TWA: 0.01 mg/m ³ 8 urah	LLV: 0.1 mg/m ³ 8 timmar. total dust	TWA: 0.1 mg/m ³ 8 saat

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Eye Protection

Goggles

Hand Protection

Protective gloves

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Silver
odor	odorless
pH	No information available.
Vapor Pressure	100 mmHg @ 1865 °C
Vapor Density	No information available.
Boiling Point/Range	2212°C / 4013.6°F
Melting Point/Range	961°C / 1761.8°F
Flash Point	No information available.
Autoignition Temperature	No information available.
Water Solubility	Insoluble
Specific Gravity	10.5
Molecular Formula	Ag
Molecular Weight	107.87

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Air sensitive.

Possibility of Hazardous Reactions

Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions .	No information available.

Conditions to Avoid

Exposure to air, Incompatible products.

Incompatible Materials

Hazardous Decomposition Products

None under normal use conditions

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Product Information No acute toxicity information is available for this product

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
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SECTION 11. TOXICOLOGICAL INFORMATION

Silver	2000 mg/kg (Rat)		
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Chronic Toxicity

Carcinogenicity

There are no known carcinogenic chemicals in this product

Sensitization

No information available.

Mutagenic Effects

No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Target Organs

No information available.

Other Adverse Effects

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

Endocrine Disruptor Information

None known

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Silver		0.0062 mg/L LC50 96 h 0.064 mg/L LC50 96 h 0.00155-0.00293 mg/L LC50 96 h		0.00024 mg/L EC50 = 48 h

Persistence and degradability

No information available

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

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SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products Dispose of in accordance with local regulations

Contaminated Packaging Empty containers should be taken to local recyclers for disposal

SECTION 14. TRANSPORT INFORMATION

IMDG/IMO Not regulated

ADR Not regulated

IATA Not regulated

SECTION 15. REGULATORY INFORMATION

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

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Silver	231-131-3	-		X	X	-	X	-	X	X	X

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

AICS - Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

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SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

No information available.

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Revision Summary

Reason for revision Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet