

Safety information sheet
Ag 999.9% in grains - wire - anodes



Revision n. VI of 2021.09.27

Replaces revision n. III of 2019.10.04

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

1.1 Identificatore del prodotto

Chemical name	SILVER
C.A.S. Registry Number	7440-22-4
EINECS number	231-131-3
Molecular weight	107,87
Brute formula	Ag
Product type	Product code
Anodes	04
Selected size grains	171
Grains	21
Wire	62
Wire D. 1.8	63
Wire D. 3.5	64

1.2 Relevant identified uses of the substance and uses advised against

Silversmith goldsmith - pharmaceutical - glass production - photographic. Industrial use
No particular use advised against

1.3 Information on the supplier of the safety data sheet

First name	FAGGI ENRICO S.P.A.
Street address	Via Majorana, 101/103 50019 Sesto Fiorentino FI
Telephone number	055311861
Fax number	055311791
Competent person responsible for the safety data sheet	lorenzo.magaldi@faggi.it

1.4 Emergency telephone number Ph 0557947819 Poison Control Center of Florence

1.5 Registration number

01-2119555669-21-XXXX

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance according to Regulation (EC) no. 1272/2008: Not dangerous

2.2 Label elements: not applicable

2.3 Other dangers None.

- **Results of PBT and vPvB assessment**
PBT: not applicable
vPvB: not applicable

3. COMPOSITION INFORMATION ON INGREDIENTS

3.1 Substance:

Numero CAS	7440-22-4
Numero EINECS	231-131-3
CE Number	-
IUPAC Number	-

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If exposed to an excessive level of dust, take the injured person to fresh air and consult a doctor. If you have difficulty breathing give oxygen or provide artificial respiration.

Ingestion: The substance does not cause intoxication.

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Skin contact: The substance is not irritating to the skin

Contact with eyes: The substance does not cause eye damage

RECOMMENDATIONS:

- **Need to see a doctor immediately** NO
- **Possibility of delayed effects following exposure** NO
- **Move the exposed individual from the place of exposure to open air** YES
- **Remove clothing and shoes of the exposed individual** NO
- **How to handle contaminated clothing** NO
- **For those providing first aid, wear PPE** NO

4.2 Most important symptoms and effects, both acute and delayed
None

4.3 Indication of any need to immediately consult a doctor and special treatments
Not necessary

5. FIRE FIGHTING MEASURES

5.1 Fire fighting

Suitable extinguishing media CO₂, powder or water spray extinguishers.

Unsuitable extinguishing media None

5.2 Special hazards arising from the substance or mixture

Do not use water on the molten metal due to the danger of violent development of steam.

5.3 Special recommendations for firefighters

General Information: Prevent the water used to extinguish the fire from flowing into the sewer, groundwater or surface water.

Equipment: Normal firefighting clothing, such as self-contained open-circuit compressed air breathing apparatus (EN137), flame retardant suit (EN469), flame retardant gloves (EN659) and firefighter boots (HOA29 or A30)

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For those who do not intervene directly

None

6.1.2. For those who intervene directly

None

6.2 Environmental precautions

None

6.3 Methods and materials for containment and cleaning up

6.3.1. Recommendations on how to contain a spill

Collect the substance

6.3.2. Recommendations on how to clean up a spill

Avoid dispersal of dust.

6.3.3. Any other information

None

6.4 References to other sections

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7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling

7.1.1. Recommendations that allow the substance or mixture to be handled safely, such as containment and prevention measures for fires and for the formation of aerosols and dusts

None

7.1.2. Generic recommendations on occupational hygiene

Do not eat, drink and smoke in work areas. Wash your hands after use. Remove contaminated clothing and protective equipment before entering eating areas

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Management of risks associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances and mixtures, evaporation conditions, potential sources of ignition

Keep separate from ammonia, concentrated solutions of hydrogen peroxide, strong acids.

7.2.3. Containment of the effects of weather conditions, pressure, temperature, sunlight, humidity and vibrations

None

7.2.4. Conditions for keeping substances / mixtures intact

None

7.2.5. Provisions relating to ventilation, specific design of storage rooms or containers, quantitative limits in storage conditions, compatibility of packaging

None

7.3. Specific end uses

Silversmith, pharmaceutical, glass production, photography. Industrial use

8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1. Control parameters

TLV metal : 0,1 mg/m³ (ACGIH 1997)

MAK (Germany) : 0,1 mg/m³ (1996)

8.2. Exposure controls

8.2.1. Appropriate technical controls

If dusts are generated during use, use an extractor hood.

8.2.2. Individual protection measures, such as personal protective equipment

Eye / face protection Not necessary

Skin protection (hands) Not necessary

Skin (body) protection Not necessary

Limb protection Use safety shoes with toecaps compliant with EN ISO 20345: 2011

Respiratory protection Use mask with ABEK_{P3} filter if vapors are generated during use

Thermal hazards None

8.2.3. Environmental exposure controls

Maintain suction in all environments using localized collection systems and ambient air exchange. Convey the aspirated volumes to an abatement system and then into

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the atmosphere. Do not use air recirculation suction systems. Avoid any spillage into the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Silvery solid
Smell	Odorless
Odor threshold	Undefined
pH	Not applicable
Melting point / freezing point	961.93 ° C
Initial boiling point and boiling range	2212 ° C
Flash point	Not inflammable
Evaporation rate	Undefined
Flammability (solid, gas)	Not inflammable
Upper / lower flammability or explosive limits	Non flammable and non explosive
Vapor pressure	0.13 μ bar at 840 ° C.
Vapor density	Undefined
Relative density (in solid form)	10.49 g / cm ³
The solubility (ies)	Insoluble in water
Partition coefficient n-octanol / water	Not applicable
Self-ignition temperature	Not subject to spontaneous ignition
Decomposition temperature	It does not decompose
Viscosity	Undefined
Explosive properties	Not explosive
Oxidizing properties	Not oxidizing

9.2. Other information (miscibility, solubility, fat solubility, conductivity, redox potential, radical formation potential and photocatalytic properties)

10. STABILITY AND REACTIVITY'

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10.1	Reactivity No data available	
10.2	Chemical stability The product is stable	
10.3	Possibility of hazardous reactions Impact sensitive compounds are formed with acetylene. Reacts with acids causing fire hazard (development of hydrogen). Contact with concentrated solutions of hydrogen peroxide can lead to violent decomposition with the formation of gaseous oxygen. Contact with ammonia can form compounds that are explosive in a dry environment.	
10.4	Conditions to avoid Contact with incompatible substances	
10.5	Incompatible materials Acetylene, acids, hydrogen peroxide, ammonia.	
10.6	Hazardous decomposition products None	
11.	TOXICOLOGICAL INFORMATION	
11.1	Information on the hazard classes defined in Regulation (EC) No. 1272/2008	
	Acute toxicity	: DNEL 0,1 mg / m ³ (workers) Ingestion: DNEL 1.2 mg / kg The LD50 value is greater than 5000 mg / kg for rats
	Skin corrosion / irritation	Classified as non-irritating to rabbit skin
	Serious eye damage / eye irritation	Not irritating
	Respiratory or skin sensitization	Not sensitizing
	Germ cell mutagenicity	Not mutagenic
	Carcinogenicity	Not carcinogenic
	Reproductive toxicity	Non toxic for reproduction
	Specific target organ toxicity (STOT) single exposure	Data not available
	Specific target organ toxicity (STOT) repeated exposure	Data not available
	Aspiration hazard	None
11.2	Information on other hazards None	
12.	INFORMAZIONI ECOLOGICHE	
12.1	Toxicity	PNEC (fresh water) 0.04µg / l PNEC (sea water) 0,86µg / l PNEC STP 0.025 mg / l PNEC SEDIMENT (water) 438.13 mg / kg PNEC SOIL 0.794 mg / kg
12.2	Persistence and degradability	Data not available
12.3	Bioaccumulation potential	Data not available

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12.4	Mobility in soil	Data not available
12.5	Results of PBT and vPvB assessment	Data not available
12.6	Properties of interference with the endocrine system	
12.7	Other adverse effects	None
13.	DISPOSAL CONSIDERATIONS	
13.1.	Waste treatment methods Send to authorized recovery companies	
14.	INFORMAZION ON TRASPORT	
14.1	UN number or ID number	
14.2	UN proper shipping name	
14.3	Transport hazard class	
14.4	Packing group	
14.5	Environmental hazards	
14.6	Special precautions for users	
14.7	Bulk sea transport in accordance with IMO acts	
15.	REGULATORY INFORMATION	
	15.1 Health, safety and environmental legislation and regulations specific to the substance or mixture	Applicability
	Reg. (EC) 1907/2006 / EC Reach	YES
	Reg. (EC) 1272/2008 CLP and following changes and additions	YES
	Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"	NO
	Reg. (EC) 850/2004 "Persistent organic pollutants"	NO
	Reg. (EC) 689/2008 "export and import of dangerous chemicals"	NO
	Substance listed in Annex I of Dir. 2012/18 / EU so-called Seveso	NO
	Legislative Decree 81/2008 Consolidated Law on health and safety at work	NO
	Directive 2014/103 / EU "Adr"	NO
	15.2 Chemical safety assessment A chemical safety assessment was not carried out	
16.	OTHER INFORMATION	
	Changes compared to previous edition Amendment to section 1	
	Key to abbreviations and acronyms ADR: European agreement concerning the international transport of dangerous goods by road GHS: Globally Harmonized System of Classification and Labeling of Substances EINECS: European Inventory of Chemical Substances CAS: Chemical Abstract Service	
	Main bibliographic references and data sources ECHA database on registered substances and those under registration: http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances	
	Adequate training for workers in order to ensure the protection of human health and the environment	
	• Training on DPI	

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