

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
SILVER CARBONATE 780%



Revision N.IX of 2021.07.29
Replaces revision n VIII of 2019.01.21

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

1.1 Product identifier

Commercial name	Silver carbonate
Product code	07
C.A.S Registry Number	534-16-7
EC number	208-590-03
Molecular name	275,75
Brut Formula	Ag ₂ CO ₃
Registration number	A REACH registration number is not available for this substance as the annual quantity produced or imported is less than one tonne.

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

Intended uses	Industrial use: chemical, pharmaceutical, photographic
Advised against uses	None in particular

1.3 Details of the supplier of the safety data sheet

Name	FAGGI ENRICO S.P.A.
Adress	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

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture according to Regulation (EC) No. 1272/2008

Hazard classes	Category codes	Hazard statements
Eye dam.	1	H318
Aquatic acute	1	H400
Aquatic chronic	1	H410

2.2 Label elements

Pictograms



Signal words

HAZARD

Hazard statements

H318

Causes serious eye damage

H410

Very toxic to aquatic life with long lasting effects

Precautionary statements

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P273	Avoid release to the environment
P391	Collect spillage
P501	Dispose of the product / container in accordance with local / regional / national / international regulations

2.3 Other hazards

It does NOT contain PBT / vPvB substances according to Regulation (EC) 1907/2006, annex XIII. It does NOT contain substances that interfere with the endocrine system in accordance with Regulation (EC) 1907/2006 art.59 paragraph 1 and in accordance with the criteria established in Regulation (EU) 2017/2100 and Regulation (EU) 2018/605.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

CAS Number 534-16-7
 EC Number 208-590-03
 M Factor Acute Toxicity: 1000
 M Factor Chronic Toxicity: 100

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Bring to a well ventilated area, in case of problems consult a doctor.
Ingestion	Give a glass of water to drink. Contact a doctor immediately. Do not give anything if the person is not conscious. If pain persists, consult a doctor
Skin contact	Generally the product is not irritating to the skin.
Eye contact	Wash with running water for several minutes holding the eyelids wide open and consult your doctor. Contact a physician

Reccomendation :

- **Need to see a doctor immediately** YES
- **Possibility of delayed effects following exposure** YES
- **Move the exposed individual from the place of exposure to open air** YES
- **Remove clothing and shoes of the exposed individual** YES

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· How to handle contaminated clothing **Do not touch**

· For those providing first aid, wear PPE **YES**

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation or ingestion: sore throat, cough, burning sensation. Shortness of breath, difficulty in breathing. Lips and nails and blue skin. Vertigo, headache, nausea. Confusional state, convulsions, unconsciousness. Symptoms can be delayed. Abdominal pain, burning sensation. Shock or collapse.

In case of eye contact: Redness, pain. Severe deep burns. Loss of vision

4.3 Indication of any immediate medical attention and special treatment needed

Consult a physician immediately. It is of the utmost importance to clean the entire contaminated area of the body, including the scalp and nails.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media CO₂, powder or water spray extinguishers. Extinguish large fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media None

5.2 Special hazards arising from the substance or mixture

No other information are available

5.3 Advice for firefighters

Normal fire-fighting 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 non-emergency personnel

None in particular

6.1.2. For emergency responders

Use gloves and glasses

6.2 Environmental precautions

Prevent the cleaning water from the spill from entering water drains, sewers, groundwater.

6.3 Methods and material for containment and cleaning up

6.3.1. Advice in order to contain a spill

None

6.3.2. Advice in order to clean-up a spill

Collect by mechanical means.

6.4 Reference to other sections

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None

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Recommendations in order to manipulate the substance or the mixture in a safe manner, such as containment measures and prevention of fire and aerosol and powders formation

No special measures are required. Avoid the formation of dust.

7.1.2. General recommendation on work 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. Risk management associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances or mixtures, evaporative conditions, potential ignition sources

No particular measures are required.

7.2.2. Control of weather conditions, ambient pressure, temperature, sunlight, humidity and vibration

Store in closed and labeled containers away from sunlight.

7.2.3. Conditions to maintain the integrity of the substance or mixture

Close the containers immediately after use.

7.2.4. Advice regarding the ventilation, specific design for storage rooms or vessels, quantity limits under storage conditions, packaging compatibilities

The storage rooms must be ventilated and closed and free of manholes / sewers

7.3. Specific end use(s)

Industrial use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Silver carbonate MAK (Germany) 0.01 E mg / m³

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Periodically carry out personal environmental sampling and clinical examinations.

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection

Splash goggles compliant with Directive 89/686 / EEC and standard EN166: 2001

Skin protection (hands)

Latex gloves compliant with EN455 EN374 standards

Skin protection (body)

Not necessary

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Respiratory protection Not necessary

Thermal hazards None

8.2.3. Environmental exposure controls

Keep all environments where silver carbonate is used in suction, using localized collection systems and ambient air exchange. Convey the aspirated volumes to an abatement system and then into 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

Physical state	Crystalline solid
Colour	Yellow
Odour	Not applicable
Melting point/freezing point	Not applicable
Boiling point or initial boiling point and boiling range	Not applicable
Flammability	Not inflammable
Lower and upper explosion limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	220 ° C
pH	Not applicable
Kinematic viscosity	Not applicable
Solubility	63 mg / L in water at 20 ° C
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	Not applicable
Density and/or relative density	6.08 g / cm ³

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	Relative vapour density	Not applicable
	Particle characteristics	D10 = approx. 2.5 µm D50= approx-7.5 µm D90=approx 25.5 µm
9.2.	Other information	
	None	
10.	STABILITY AND REACTIVITY	
10.1	Reactivity	
	No relevant information	
10.2	Chemical stability	
	The product is stable if used according to the norm.	
10.3	Possibility of hazardous reactions	
	None	
10.4	Conditions to avoid	
	No other information available	
10.5	Incompatible materials	
	None	
10.6	Hazardous decomposition products	
	Under normal conditions of use and storage, hazardous decomposition products should not be formed	
11.	TOXICOLOGICAL INFORMATION	
11.1	Information on hazard classes as defined in Regulation (EC) No 1272/2008	
	Acute toxicity	Oral Rat : LD50 > 2000 mg/kg
	Skin corrosion/irritation	Non corrosive on skin
	Serious eye damage/irritation	Strong irritation with the risk of serious eye damage.
	Respiratory or skin sensitization	There are no known sensitizing effects.
	Germ cell mutagenicity	There are no known sensitizing effects.
	Carcinogenicity	Not mutagenic
	Reproductive toxicity	Non cancerogen
	STOT – single exposure	Not toxic
	STOT – repeated exposure	Not toxic
	Aspiration hazard	

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11.2	Information on other hazards		
	None		
12.	ECOLOGICAL INFORMATION		
	As it is not possible to provide specific data on the mixture, the following data are provided for the substance ammonium vanadate		
12.1	Toxicity		PNEC fresh water: 0.04 µg / l PNEC sea water: 0.86 µg / l PNEC sediments: 483.13 mg / kg sediment dw M FACTOR: 1000
12.2	Persistence and degradability		Not biodegradable
12.3	Bioaccumulative potential		Bioaccumulation after 30 days (Carp): 70 BCF
12.4	Mobility in soil		Log Kd 4.05 (sediments)
12.5	Results of PBT and vPvB assessment		Not PBT nor vPvB
12.6	Endocrine disrupting properties		No known effects
12.7	Other adverse effects		Data not available
13.	DISPOSAL CONSIDERATIONS		
13.1.	Waste treatment methods		
	Classify as special hazardous waste. If possible, allocate both the substance and the packaging to plants authorized for the recovery of precious metal		
14.	TRANSPORT INFORMATION		
14.1	UN number or ID number	ONU 3077	
14.2	UN proper shipping name		Environmentally hazardous substance, solid, n.o.s.
14.3	Transport hazard class(es)	9	
14.4	Packing group	III	
14.5	Environmental hazards	YES	
14.6	Special precautions for user	n.a.	
14.7	Maritime transport in bulk according to IMO instruments	n.a.	
15.	REGULATORY INFORMATION		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		Applicability
	<i>Reg. (CE) 1907/2006/CE Reach</i>		YES
	<i>Reg. (EC) 1272/2008 CLP and subsequent changes and additions</i>		YES

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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	YES
Directive 2014/103 / EU "Adr"	YES

15.2

Chemical safety assessment

A chemical safety assessment was not carried out

16.

OTHER INFORMATION

Changes compared to the previous edition

Regulatory adaptation

Acronim and abbreviation legend

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstract Service

Main references and data sources

ECHA's data bank on registered substances and soon to be registered substances:

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

Adequate training for workers to ensure the protection of human health and the environment

- Training on Chemical Risk pursuant to Legislative Decree 81/08 Title IX dangerous substances
- PPE training