

**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
Numero EINECS	208-590-03
Molecolar name	275,75
Brut Formula	Ag <sub>2</sub> CO <sub>3</sub>
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
EINECS Number	208-590-03
M Factor	1000

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

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- 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      CO<sub>2</sub>, 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**

None

**7. HANDLING AND STORAGE**

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**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 / m<sup>3</sup>

**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**

<b>Eye/face protection</b>	Splash goggles compliant with Directive 89/686 / EEC and standard EN166: 2001
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<b>Skin protection (hands)</b>	Latex gloves compliant with EN455 EN374 standards
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<b>Skin protection (body)</b>	Not necessary
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<b>Respiratory protection</b>	Not necessary
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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**

**11.2 Information on other hazards**

None

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**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**

<b>12.1</b>	<b>Toxicity</b>	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
<b>12.2</b>	<b>Persistence and degradability</b>	Not biodegradable
<b>12.3</b>	<b>Bioaccumulative potential</b>	Bioaccumulation after 30 days (Carp): 70 BCF
<b>12.4</b>	<b>Mobility in soil</b>	Log Kd 4.05 (sediments)
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>	Not PBT nor vPvB
<b>12.6</b>	<b>Endocrine disrupting properties</b>	No known effects
<b>12.7</b>	<b>Other adverse effects</b>	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**

<b>14.1</b>	<b>UN number or ID number</b>	<b>ONU 3077</b>
<b>14.2</b>	<b>UN proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s.
<b>14.3</b>	<b>Transport hazard class(es)</b>	9
<b>14.4</b>	<b>Packing group</b>	III
<b>14.5</b>	<b>Environmental hazards</b>	YES
<b>14.6</b>	<b>Special precautions for user</b>	n.a.
<b>14.7</b>	<b>Maritime transport in bulk according to IMO instruments</b>	n.a.

**15. REGULATORY INFORMATION**

<b>15.1</b>	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	<b>Applicability</b>
	<i>Reg. (CE) 1907/2006/CE Reach</i>	YES
	<i>Reg. (EC) 1272/2008 CLP and subsequent changes and additions</i>	YES
	<i>Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"</i>	NO

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<b>Reg. (EC) 850/2004 "Persistent organic pollutants"</b>	NO
<b>Reg. (EC) 689/2008 "export and import of dangerous chemicals"</b>	NO
<b>Substance listed in Annex I of Dir. 2012/18 / EU so-called Seveso</b>	NO
<b>Legislative Decree 81/2008 Consolidated Law on health and safety at work</b>	YES
<b>Directive 2014/103 / EU "Adr"</b>	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