

Revision n. III dd 01.21.2019 Replaces revision n II dd 06.01.2015

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

Chemical Silver methanesulfonate

name

C.A.S. Registry 2386-52-9

Number

EINECS number 219-199-2 Molecular weight 202,97 g/mol Chemical Formula CH_3AgO_3S

1.2 Pertinent use of the substance and recommended use

Catalyst in a homogenous phase

1.3 Informations about the furniture of the safety data sheet

Name FAGGI ENRICO S.P.A.

Address Via Majorana, 101/103 50019 Sesto

Fiorentino FI

Telephone number 055311861 Fax number 055311791

Competent person responsible

1.4 Emergency telephone number Tel. 0557947819 Centro Antiveleni di

Firenze

1.5 Registration number

For this product is not available a registration number as the annual produced or imported quantity is below one ton.

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture in accordance with Regulation (CE) n. 1272/2008

Hazard classes	Category codes	Hazard statements
Met Corr	1	H290
Acute tox.	4	H302
Acute tox.	4	H312
Skin corr.	1C	H314
Eye dam	1	H318
Acute tox	4	H332
STOT SE	3	H335

2.2 Label elements

Pittogrammi





Warnings	DANGER	
Hazard	H290	May be corrosive to metals
statements		
	H302	Harmful if swallowed
	H314	Causes severe skin burns and eye
		damage
	H318	Causes serious eye damage



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	H312	Harmful in contact with skin	
	H332	Harmful if inhaled.	
Safety Advice	P260	Do not breathe	
		dust/fumes/gas/mist/vapours/spray	
	P280	Wear protective gloves/protective	
		clothing/eye protection/face protection	
	P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT	
		induce vomiting.	
	P304+P340	IF INHALED: Remove person to fresh air	
		and keep comfortable for breathing	
	P305+P351+P338	IF IN EYES: Rinse cautiously with water	
		for several minutes. Remove contact	
		lenses if present and easy to do –	
		continue rinsing.	
	P501	Dispose of contents/container in	
		accordance with	
		local/regional/national/international	
		regulation	
Futher	None		
Informations	e		
Results of PBT	vPvB: not applicable		
e vPvB			

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substance

> CAS number 2386-52-9

EINECS number

CE number 219-199-2

IUPAC number

4. **FIRST-AID MEASURES**

> 4.1 **Description of the first-aid measures**

> > Inhalation Bring to fresh air immediately If not breathing provide

> > > artificial respiration and call a doctor for medical treatment. In case of unconsciousness place patient stably in side

position for transportation

Consult a doctor immediately for medical treatment. Drink 2 Ingestion

glasses of water immediately

Instantly wash with water and soap and rinse thoroughly Skin contact

Eye contact Immediately flush eyes with plenty of water for at least 15

minutes after removing contact lenses. Consult an

ophthalmologist

Recommendations:

	Need for immediate medical attention	YES
•	Possibility of delayed effects subsequent the exposition	YES
•	Move the exposed individual from the area to fresh air	YES
•	Remove clothes and shoes from the individual	YES



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• Modality of manipulation of contaminated garments With gloves

• For lenders of first aid, wear the DPI YES

4.2 Main symptoms and effects both acute and delayed

After inhalation or ingestion: sore throat, cough, burning sensation. Breath wheezing, difficulty breathing. Lips and nails and blue skin. Dizziness, headaches, nausea. Confusion, convulsions, unconsciousness. Symptoms may be delayed.

Abdominal pain, burning sensation. Shock or collapse. After contact with skin: pain, redness, burns, blisters.

In case of eye contact: redness, pain. Severe deep burns. Loss of view

4.3 Indication of the possible urgency to consult immediately a doctor or of special treatments

A doctor should be consulted immediately. Clean the whole contaminated area of he body, including the scalp and nails.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing CO2, powder, water spray, foam. Fight larger media fires with water spray or alcohol resistant to foam

Unsuitable None in particular

extinguishing media

5.2 Special hazards arising from the substance or the mixture

Informations are not available

5.3 Advice for firefighters

General Avoid that the v

Avoid that the water used to extinguish the fire goes into sewage system, aquifers

or to superficial waters.

Equipment

informations

Normal garments for firefighting, as an air breathing apparatus (ref. standard EN 137) or fresh air hose breathing, protective clothing for welding (EN 469), flame resistant gloves (EN659) and fireman's boots (HOA29 or A30)

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Get away immediately from the contaminated area.

6.1.2. For emergency responders

Wear:

Chemical risks Gloves conform to the standards EN420 EN374 Complete clothing complying with the UNI EN 13034: 2006 regulation Half masks masks with ABEK2P3 R filters complying with EN14387: 2004 + A1: 2008 regulation

6.2 Environmental precautions

Prevent product from going into sewers and water sources or soil In case of pollution of rivers, lakes or drains, inform appropriate authorities in accordance with local laws. In case of fire fire-fighting water should not enter in drainage systems, soil, or surface water.

6.3 Methods and materials for containment and clean-up

- **6.3.1.** Recommendations about the methods of containment of a spill Collect product in an appropriate way and avoid dust formation
- **6.3.2.** Recommendations about the methods of reclamation of a spill Wash the contaminated area with water



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7.

7.2.

<i>6.3.3.</i>	Any other information	S
	None	

6.4 Reference to other sections

HANDLING AND STORAGE

7.1. Preacautions for safe handling

7.1.1. Recommendations that allow safe handling of the substance or mixture, such as containment and measures to prevent fine as well as aerosol and dust generation

Keep the original containers closed tightly. Use under suction. Jars should be closed immediately afert use. The use is permitted only to a trained and an informed personnel.

7.1.2. Advice on general occupational hygiene

Do not eat, drink or smoke in designated work areas. Wash hands after handling. To remove contaminated clothing and protective equipment before entering eating areas

Conditions for safe storage, including any incompatibilities

7.2.1. Risk management decisions arising from explosive atmospheres, corrosive conditions, flammability hazards, incompatible materials, evaporative conditions, potential ignition sources
Store in an area without drain or sewer access

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

 Keep away from moisture and direct light
- **7.2.4.** Conditions to maintain the integrity of the substance or mixture Keep in a cool, dry place and in airtight containers
- 7.2.5. Decisions about ventilation requirements, specific design for storage rooms or vessels, quantitative limits in storage conditions, compatibility of the packaging.

Store in an area without drain or sewer access

7.3. Specific end use

Industrial use

EXPOSURE CONTROL/ INDIVIDUAL PROTECTION

Controller parameters
ECTLV TWA 0,01 mg/m3
OEL (IT) TWA 0,01 mg/m3

DNEL and PNEC: N.D

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Use under a fume hood. Periodically carry personal environmental samples and clinical examinations

8.2.2. Individual measures, such as personal protective equipment

Eye/face protection Protective glasses complying with

89/686/CEE and

EN166:2001 regulation

Skin protection (hands) Protective gloves material complying

with EN420 and E374 regulations

Skin protection (body)Complete clothing antacid complying

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8.

8.1.



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9.

9.1

with UNI EN 13034: 2006 type 6

regulation

Respiratory protection Half-mask with P2 filter

Thermal hazards None

8.2.3. Environmental exposure controls

Keep suction all environments using capture systems localized. Conveying the withdrawn volumes to an abatement system and then into the atmosphere. Do not use vacuum systems to air recirculation

PROPERTIES (PHYSICAL/CHEMICAL)

Informations about the main physical and chemical properties

Aspect Solid white or white/grey

Odour No smell Odour threshold Undefined рН Undefined Melting point/freezing point 252 - 256°C Intial boiling point and boiling range Undefined Not flammable Flashpoint **Evaporation rate** Not applicable Flammability solids/gases Not flammable

Upper/lower flammability or explosive Not flammable nor explosive

limits

Vapour pressure
Vapour density
Relative density
Not applicable
Undefined

Solubility/Solubilities Insoluble in water The log octanol/water partition Not applicable

Coefficient

Auto-ignition temperature

Decomposition temperature

Viscosity

Explosive properties

Oxidising properties

Not applicable

Not explosive

Not oxidising

9.2. Other informations (miscibility, solubility, fat solubility, conductivity,

redox potential, radical formation potential and photocatalytic

properties)

None

10. STABILITY AND REACTIVITY

10.1 Reactivity

Information are not available

10.2 Chemical stability

The product is stable during normal storage and usage conditions

10.3 Possibility of hazardous reactions

No data are available

10.4 Conditions to avoid

Moisture

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

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		Carbon monoxide, sulfur oxid	des. silver oxid	les
11.		TOXICOLOGICAL INFORMATION		
	11.1	Informations about toxicological effects		
		Acute toxicity Harmful		
		Skin corrosion/irritation	Irritating	
		Eye damage/irritation	Irritating	
		Skin sensitisation or	Not sensitizi	ng
		corrosion/irritation		
		Germ cell mutagenicity	Not mutager	nic
		Carcinogenity	Not carcinog	enic
		Reproductive toxicity	Not toxic for	reproduction
		Specific target organ	Irritating to r	espiratory tract
		toxicity		
		(STOT)-single exposure		
		Specific target organ	Skin (argyria)
		toxicity		
		(STOT)-repeated exposure		
		Aspiration hazard	Irritation	
	11.2 Specific target organ toxicity			
		Skin, eyes, respiratory tracts		
	11.3	Symptoms related to the ph	ysical, chemic	al and toxicological
		characteristic Irritation Delayed, immediate and chronic effects from short and long term exposure Acute effects The substance is corrosive to the eyes, the skin and the respiratory tract Chronic effects Inhalation or ingestion can lead to generalized argyria, staining grey eyes		
	11.4.			
		and skin and brown fingernai	ils.	
	11.5.	Interactive effects		
		There are no interactive effective		
	11.6.	In the absence of specific da	ta	
	44.7	-		
	11.7.	Other informations		
42		None	c	
12.		ECOLOGICAL INFORMATION	5	Nathania
		Toxicity		Not toxic
		Persistence and degradabilit	ЗУ	Data are not available
		Bioaccumulation potential		Data are not available
		Mobility in soil		Data are not available
		Results of PBT e vPvB Data are not available		
42		Other adverse effects Data are not available		
13.	12.1	DISPOSAL CONSIDERATIONS		
	13.1.	Waste treatment methods		
		This product and its packaging must be disposed of in licensed facilities.		



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14.		TRANSPORT INFORMATIONS		
		UN number	1759	
		Name	solid corrosive n.o.s. (Ag
			methanesulfonate)	
		Hazard class	8	
		Pack group	III	
		Special precautions for user	Approved packaging	
15.		REGULATORY INFORMATION		
	<i>15.1</i>	Legislation		Applicability
		Reg. (CE) 1907/2006/CE Reach		YES
		Reg. (CE) 1272/2008 CLP and subsequ	uent amendments	YES
		and addenda		
		Reg. (CE) 2037/2000 "Substances the	at deplete the	NO
		ozone layer"		
		Reg. (CE) 850/2004 "The persistent o	rganic pollutants"	NO
		Reg. (CE) 689/2008 "The export and	import of	NO
		dangerous chemicals"		
		Substance listed in Annex I 2012/18/UE cd Seveso NO		NO
		D.lgs 81/2008 Uniform Occupational Health and Safety		YES
		Code		
		DirettivE 2014/103/UE "Adr"		NO
	<i>15.2</i>	Chemical Safety Assessment		
		A chemical safety assessment has not	been carried out	
16.		OTHER INFORMATIONS		
	16.1	Changes as compared to the previou	s version	
		Modified sections 1, 2, 11 and 14		
	16.2	Legend to abbreviations and acronyr	ms	
		ADR: European Agreement on the int		•
		GHS: Globally Harmonised System of		_
		EINECS: European Inventory of Existing	ng Commercial Chemic	al Substances
		CAS: Chemical Abstract Service		
	16.3	Bibliographical references and data s	sources	
		ECHA substance data bank:		
		http://echa.europa.eu/web/guest/inf	<u>formation-on-chemica</u>	ls/registered-
		<u>substances</u>		
		Platform ESIS		

http://esis.jrc.ec.europa.eu

16.5. Advice on any training appropriate for workers to ensure protection of human health and the environment

- Training sessions on Chemical Risk pursuant to Legislative Decree 81/08 Title IX hazardous substances
- Training sessions on DPI

16.6. Other informations

Not available



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