

Revision XIV – 31.07.2023 Replaces revision. XIII - 22.11.2022

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

1.1	Product identifier		
	Chemical name	AG OXIDE	
	Registration number	A REACH registra	tion number is not available for this product
		as the annual qua	antity produced or imported is less than one
		ton.	
	C.A.S.	20667-12-3	
	CE Number	243-957-1	
	Molecular weight	231,74 g/mol	
	Brute formula	Ag ₂ O	
	Product code	61	
1.2	Relevant identified uses of	the substance or mi	xture and uses advised against
	Intended uses	Industrial use	
	Advised against uses	Check section 15	
1.3	Details of the supplier of th	•	
	Name		RICO S.P.A.
	Adress	•	ana, 101/103 50019 Sesto Fiorentino Fl
	Telephone number	05531186	
	Fax number	05531179	
	Competent person responsi	ble for lorenzo.m	agaldi@faggi.it
	the safety data sheet		
1.4	Emergency telephone num		ical helpline operating in England, in Scotland
		(NHS 24) a	and in Wales (NHS Direct Wales)
		• .	
2.1			rding to Regulation (EC) n. 1272/2008
	Hazard classes	Category codes	Hazard statements
	Ox. Sol.	1	H271
	Eye Damage	1	H318
	Repr.	1B	H360D
	Aquatic Acute	1	H400
	Aquatic Chronic	1	H410
2.2	Label elements		
	Pictograms		₩2
	Signal words	DANGER	*
	Hazard statements		
		H271	May cause fire or explosion; strong oxidiser.
		H318	Causes serious eye damage.
		H360D	May damage the unborn child
		H410	Very toxic to aquatic life with long lasting
			effects.
	Precautionary statements	P210	Keep away from heat, hot surfaces,
		-	sparks, open flames and other ignition
			spurkes. No smoking

2.

sources. No smoking.



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2.3

3.1

	P273 P305+P351+P338	Avoid release to the environment IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.		
	P308+P313	IF exposed or concerned: Get medical advice/attention.		
	P371+P380+P375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.		
	P391	Collect spillage.		
Other hazards	It does NOT contain	It does NOT contain PBT / vPvB substances according to		
	Regulation (EC) 190	Regulation (EC) 1907/2006, annex XIII.		
	It does NOT contain	It does NOT contain substances that interfere with the		
	endocrine system ir	accordance with Regulation (EC) 1907/2006		
	art.59 paragraph 1 a	and in accordance with the criteria		
	established in Regu 2018/605.	lation (EU) 2017/2100 and Regulation (EU)		

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance SILVER OXIDE	
CAS Number	20667-12-3
CE Number	243-957-1
INDEX number	Not available
ATE	Not applicable
M factor acute toxicity	100
M factor chronic toxicity	10

4. FIRST AID MEASURES

4.1 Description of first aid measures

Recomendation:	doctor immediately	YES
	the eyelids open (remove cor immediately.	ntact lenses if it is easy to do so). Call a doctor
Eye contact		water for at least 15 minutes while keeping
Skin contact	Remove contaminated clothi	ng and wash thoroughly with plenty of water
Ingestion	respiration if necessary. Do not induce vomiting. Was immediately.	h the injured person's mouth. Call a doctor
Inhalation	Immediately take to fresh air.	If breathing is difficult, give oxygen. Artificial

•	Need to see a doctor minediatery	123
٠	Possibility of delayed effects following exposure	YES
٠	Move the exposed individual from the place of exposure to the open air	YES
٠	Remove the clothing and shoes of the exposed individual	YES
٠	How to handle contaminated clothing	With gloves
٠	For those providing first aid, wear DPI	YES
	and the second and a figure to be a she with a second state and	

4.2 Most important symptoms and effects, both acute and delayed



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Destruction of the skin tissue, i.e. a visible necrosis of the epidermis and part of the dermis (reactions after exposure between three minutes and an hour and observations up to 14 days).

4.3 Indication of any immediate medical attention and special treatment needed Consult a doctor immediately.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing mediaCO2, powder or water spray extinguishers.Non suitable extinguishingNonemediaMone

5.2 Special hazards arising from the substance or mixture

Although the substance or mixture is not combustible, it can - generally by releasing oxygen - cause or favor the combustion of other materials.

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)

Protective measures to be taken:

Remove the containers from the fire area, if this is possible without risk, or cool them, since if the substance is exposed to thermal radiation or if it is directly involved it can give rise to toxic fumes and explosions.

Damaged containers should only be handled by authorized skilled personnel.

Proceed to extinguish the fire at a safe distance from the containers using hoses or automatic fire extinguishing systems with nozzles positioned above the containers

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

6.1.1. For non-emergency personnel

Evacuate the contaminated area.

6.1.2. For emergency responders

Wear protective equipment (anti-acid protective gloves and clothing and eye protection).

Provide adequate ventilation of the premises.

Whenever possible, operate above wind.

Avoid coming into contact with the substance or handling the containers without adequate protection.

Isolate the area until the substance is completely dispersed.

6.2 Environmental precautions

Evacuate the dangerous area and minimize the affected area by containing the leak. Collect the material and store it in a suitable container pending disposal. Do not allow the spill to reach sewers or natural water courses and if it was not possible to immediately notify the competent authorities.

6.3 Methods and material for containment and cleaning up

6.3.1. Advice to contain a spill

Limit the spreading with sand, bentonite or similar. Do not use sawdust or other flammable materials.

6.3.2. Advice to clean-up a spill

- Wash the area with plenty of water.
- 6.3.3 Any other information



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None

6.4 Reference to other sections

None

7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling
 - 7.1.1. Raccomentations to manipulate the substance or the mixture in a safe manner, such as containement measures and prevention of fire and aereosol and powders formation

Use substance only with adequate ventilation and aspiration and with emergency eye wash nearby.

7.1.2. General recommendation on work hygiene Do not eat, drink, or smoke in work areas; wash hands thoroughly after use and remove contaminated clothing and protective equipment before entering areas where you eat.

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 Keep in sealed and labeled containers, separately or only with other oxidizing substances and away from sources of heat and ignition.
- 7.2.2. Control of weather conditions, ambient pressure, temperature, sunlight, humidity, and vibration

Store at temperatures below 15 ° C and away from sunlight.

- **7.2.3. Conditions for keeping substances / mixtures intact** Keep in a cool and dry place
- **7.2.4.** Advice regarding the ventilation, specific design for storage rooms or vessels, quantity limits under storage conditions, packaging compatibilities Storage rooms must be ventilated and closed.
- 7.3. Specific end use(s)

Industrial use

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

ECTLV TWA 0,01 mg/m3 OEL (IT) TWA 0,01 mg/m3 DNEL Workers: 0.6 mg/m³ – Inhalation – Repeated dose toxicity Population: 0.15 mg/m³ – Inhalation – Repeated dose toxicity Workers: 0.22 mg/Kg bw/day - Skin contact - Repeated dose toxicity Population: 0.11 mg/Kg bw/day – Skin contact – Repeated dose toxicity **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 equipmentEye/face protectionProtective equipment for the eyes compliant with
Directive 89/686 / EEC and standard EN166: 2001

Skin protection (hands) Gloves compliant with EN420 E374 standards

8.2.



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9.

	Skin protection (body)	Protective and antacid clothing compliant with UNI EN 13034: 2006 type 6 standards	
	Respiratory protection	Mask with B, P2 or ABEK P3 filters or self-contained breathing apparatus	
	Thermal hazards	Protective clothing compliant with UNI EN ISO 11612: 2009 A1-B1-C1-E1	
8.2.3.	3. Environmental exposure controls		
	Maintain suction in all environments where silver nitrate is used, using localized		
	collection and ambient air exchange systems. Convey the aspirated volumes to		
	an abatement system and	n abatement system and then into the atmosphere. Do not use air recirculation	
	suction systems. Avoid any spill into the environment.		
PHYSICAL AND CHEMICAL PROPERTIES			
9.1 Information	mation on basic physical and chemical properties		
	Physical state	Solid powder	
	Colour	dark brown	
	Odour	Odorless	

Melting point/freezing point	The substance does not melt but
	decomposes
Boiling point or initial boiling point	Not applicable
and boiling range	
Flammability	Not inflammable
Lower and upper explosion limit	Not explosive
Flash point	Not inflammable
Auto-ignition temperature	Not inflammable
Decomposition temperature	230 - 280 ° C
рН	Not applicable
Kinematic viscosity	Not applicable
Solubility	Insoluble in water
Partition coefficient n-octanol/water	Insoluble in n-octanol
(log value)	
Vapour pressure	Not applicable
Density and/or relative density	7.2 g / cm ³
Relative vapour density	Not applicable
Particle characteristics	Particle size D ₁₀ : 2.2 μm
	Particle size D_{50} : 3.9 μ m

Particle size D₉₀: 6.8 µm

9.2. Other information

None.

10. STABILITY AND REACTIVITY

10.1 Reactivity

The product has oxidizing characteristics. It can decompose slowly when exposed to sunlight with the formation of metallic Ag.

10.2 **Chemical stability**

The product is stable

10.3 Possibility of hazardous reactions

Risk of explosion with aluminum in the form of dust, ammonia, ethyl alcohol, hydrazines, sodium, organic nitro compounds, carbon monoxide Risk of ignition or formation of flammable gases or vapors with:



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10.4 Conditions to avoid Heating 10.5 Incompatible materials See point 10.3 10.6 Hazardous decomposition prodoucts None 11. TOXICOLOGICAL INFORMATION 11.1 Information on hazard classes as defined in Regulation (CE) No 1272/2008 Acute toxicity DNEL (Derived No Effect Level) 0.107 mg/m ³ LDS50 (oral) Effect level> 10000 mg/kg bw LCS0 (inhalation) (male and female rats; 4 h) > 750 µg/m ³ LDS50 (skin corrosion/irritation Based on available data, the classification criteria are not met Serious eye damage/irritation Corrosive to the eyes Respiratory or skin sensitization Based on available data, the classification criteria are not met Germ cell mutagenicity Based on available data, the classification criteria are not met Reproductive toxicity Based on available data, the classification criteria are not met Reproductive toxicity Based on available data, the classification criteria are not met Image: Carcinogenicity Based on available data, the classification criteria are not met Reproductive toxicity Based on available data, the classification criteria are not met Image: Reproductive toxicity Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Image: Reproductive toxici		sulfur, hydrogen sulphide, selenium, sulphides, phosphorus, combustible substances. Exothermic reaction with magnesium.			
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classification criteria are not met					
			(STOT) repeated exposure		
				classification criteria are not met	

11.2 Information on other hazards

The main ailment due to poisoning from silver and its salts is called argyria: it usually appears following the intake of silver for long periods (months) and appears as a skin alteration that permanently colors the skin blue, usually not has other associated disorders and is therefore a substantially aesthetic problem.

12. ECOLOGICAL INFORMATION

12.1 Toxicity PNEC aqua (freshwater) 0.04 µg/L PNEC aqua (marine water) 0.86 µg/L PNEC STP 0.025 mg/L PNEC sediment (freshwater) 438.13 mg/kg sediment dw



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PNEC sediment (marine water)438.13 mg/kg sediment dw PNEC soil 1.41 mg/kg soil dw LC50 96 h (fish) 1.2 μg/L The 28 day NOEC (mortality and growth) is 130 μg dissolved Ag/L Not degradable Log Pow = n.a. BCF = 70 Scientifically not justified studies Not applicable No known effects No know effects

- 12.2 Persistence and degradability
- 12.3 Bioaccumulative potential
- 12.4 Mobility in soil
- 12.5 Results of PBT and vPvB assessment
- 12.6 Endocrine disrupting properties
- 12.7 Other adverse effects
- 13. DISPOSAL CONSIDERATIONS
 - 13.1. Waste treatment methods
 Either the mixture or packages must be sent to approved facilities for the disposal of industrial wastes.

14. TRANSPORT INFORMATION

- 14.1 UN number or ID number
- 14.2UN proper shipping name14.3Transport hazard class(es)14.9(2010) (0.100) (0.100) (0.100)
- ADR/RID/IMDG/ICAO-IATA ADR/RID/IMDG/ICAO-IATA IMDG Marine pollutant
- 14.4 Packing group
- 14.5 Environmental hazards
- 14.6 Special precautions for user

UN 1479 Oxidising solid, n.o.s.

5.1

I YES

Transport must be carried out by vehicles authorized to transport dangerous goods according to the provisions of the current edition of the A.D.R. Agreement. and the applicable national provisions. Transportation must be carried out in the original packaging and, in any case, in packaging that is made of materials that cannot be attacked by the contents and are not likely to generate dangerous reactions with this. Persons responsible for loading and unloading dangerous goods must have received appropriate training on the risks presented by the preparation and on any procedures to be adopted in the event of emergency situations

- 14.7 Maritime transport in bulk according to IMO No bulk transport is foreseen instruments
- 15. REGULATORY INFORMATION
 - 15.1 Safety, health and environmental regulations/legislation specific for Applicability the substance or mixture



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Reg. (CE) 1907/2006/CE Reach	YES
Reg. (CE) 1272/2008 CLP and subsequent amendements	YES
Reg. (CE) 2037/2000 "Substances that deplete the ozone layer"	NO
Reg. (CE) 850/2004 "Persistent organic pollutants"	NO
Reg. (CE) 689/2008 "Export and import of hazardous chemicals"	NO
Substance listed in Annex I of Dir. 2012/18/EU cd Seveso	YES
Directive 81/2008 Consolidated Act on protection of health and work safety	YES
Directive 2014/103/UE "Adr"	YES
Reg. (CE) 1907/2006/CE Reach art. 59 – Candidate List of Substances of Very High Concern (SVHC)	NO
Reg. (CE) 1907/2006/CE Reach - Annex XIV – Authorisation List	NO
Reg. (CE) 1907/2006/CE Reach - Annex XVII – Restriction List	Limited use
https://echa.europa.eu/it/substances-restricted-under-reach	ltem 30 - 75 (check link)

15.2 Chemical safety assessment

A chemical safety assessment was not carried out.

16. OTHER INFORMATION

Changes compared to the previous edition

Amendment to section 2, 3, 8, 11, 14, 15

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 guarantee the protection of human health and the environment

Training on the chemical risk ex Directive 81/08 Title IX dangerous substances Training on DPI