

Safety data sheet
According to Regulation n. 1907/2006 and Regulation 878/2020
AMMONIUM AU SULFITE 100 g / l



Revision n. 5 – 25.09.2024

Replaces revision n 4 – 01.12.2022

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

1.1 Product identifier

Chemical name AMMONIUM AU SULFITE 100 g / l
 Product codes 75

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

Intended uses Industrial use. Additive for electroplating
 Advised against uses None in particular

1.3 Details of the supplier 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 for
 the safety data sheet lorenzo.magaldi@faggi.it

1.4 Emergency telephone number 111 - Medical helpline operating in England, in
 Scotland (NHS 24) and in Wales (NHS Direct Wales).

1.5 REACH registration number Exempt under Article 6(1)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Hazard classes	Category codes	Hazard statements
Skin Irrit.	2	H315
Eye Irrit	2	H319

2.2 Label elements

Pictograms



Signal words

DANGER

Hazard statements

H315 Causes skin irritation.
 H319 Causes serious eye irritation
 EUH031 Contact with acids liberates
 toxic gas
 EUH071 Corrosive to the respiratory
 tract

Precautionary statements

P264 Wash hands thoroughly after
 use
 P280 Wear protective gloves /
 clothing / eye protection /
 face protection.
 P332 + P313 If skin irritation occurs: Get
 medical attention
 P367 + P313 If eye irritation persists,
 consult a doctor
 P362 + P364 Take off all contaminated
 clothing and wash it before
 wearing again.

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- 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

3.2 Mixure

Product identifier	Concentration %	Classification	
		Hazard classes	Category codes
Gold (I) ammonium sulphite	15 ≤ C ≤ 20	Skin irr. 2 Eye irr. 2 Contact with acids liberates toxic gas	H315 H319 EUH031
CAS 71662-32-3			
EC 275-798-9			
INDEX not available			
N. Reach exempt for quantity			
ATE: Not applicable			
M-Factor: Not applicable			
Ammonia	0.2 ≤ C ≤ 1.0	Skin corr. 1 B Acute toxicity 4 (inhalation) STOT SE 3 Aquatic acute 1 Aquatic chronic 2 Corrosive to the respiratory tract	H314 H332 H335 H400 H411 EUH071
CAS 1336-21-6			
EC: 215-647-6			
INDEX 007-001-01-2			
REACH n. 01-2119488876-14-XXXX			
ATE (inhalation): 3285 ppm			
M factor acute toxicity: 1			
M factor chronic: data not available			
Specific limits:			
STOT SE 3; H335: C ≥ 5 %			

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Transport the injured person outdoors and keep him warm and at rest.	
Ingestion	Call your doctor right away. Drink plenty of water and stand in a well-ventilated area. Seek immediate medical attention. Do not induce vomiting	
Contact with skin	Remove contaminated clothing immediately	
Contact with eyes	Wash immediately with soap and water and rinse thoroughly.	
Recommendations:		
• Need to see a doctor immediately		YES
• Possibility of delayed effects following exposure		NO
• Move the exposed individual from the place of exposure to the open air		YES
• Remove the clothing and shoes of the exposed individual		YES
• How to handle contaminated clothing		With gloves
• For first aiders, wear PPE		YES

4.2 Most important symptoms and effects, both acute and delayed

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Severe skin irritation and severe eye damage. It can irritate the respiratory tract

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

Unsuitable extinguishing media None in particular

5.2 Special hazards arising from the substance or mixture

In the event of a fire, toxic sulfur oxide gases may be released

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

Keep away from contaminated area

6.1.2. For emergency responders

Use :

Chemical risk gloves compliant with EN420 EN374 standards

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

Complete clothing compliant with the UNI EN 13034: 2006 standard.

Check the spreading with absorbent material.

6.2 Environmental precautions

Prevent infiltration into the sewer / surface water / ground water.

6.3 Methods and material for containment and cleaning up

6.3.1. Advice in order to contain a spill

Collect the liquid with absorbent material (sand, tripoli, universal binder, sawdust).

6.3.2. Advice in order to clean-up a spill

Dispose of contaminated material according to section 13.

6.3.3 Other information

None

6.4 Reference to other sections

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

None in particular

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

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7.2.1. Risk management associated with explosive atmospheres, corrosive conditions, flammability hazards, incompatible substances or mixtures, evaporative conditions, potential ignition sources

Store separately from acids.

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

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

Store in the original labeled packaging and close them immediately after use.

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

Handle under a fume hood.

7.3. Specific end use(s)

Industrial use. Additive for electroplating.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

SUBSTANCE: AMMONIA

(Annex XXXVIII Legislative Decree 81/06)

EU OEL:

TWA (8h) 14 mg/m³ or 20 ppm (gaseous state)

STEL (short term) 36 mg/m³ or 50 ppm (gaseous state)

DNEL

Workers

Systemic effects for long-term exposure – inhalation: 47.6 mg/m³

Systemic effects for short-term exposure – inhalation: 47.6 mg/m³

Local effects for long-term exposure – inhalation: 14 mg/m³

Local effects for short-term exposure – inhalation: 36 mg/m³

Systemic effects for long-term exposure – dermal: 6.8 mg/kg body weight per day

Systemic effects for short-term exposure – dermal: 6.8 mg/kg body weight per day

Local effects for Long-term exposure – dermal: moderate risk (no threshold derived)

Local effects for short-term exposure – dermal: moderate risk (no threshold derived)

Eye hazards: moderate risk (no threshold derived)

General population

Systemic effects for long-term exposure – inhalation: 23.8 mg/m³

Systemic effects for short-term exposure – inhalation: 23.8 mg/m³

Local effects for long-term exposure – inhalation: 2.8 mg/m³

Local effects for short-term exposure – inhalation: 7.2 mg/m³

Systemic effects for long-term exposure – dermal: 6.8 mg/kg body weight per day

Systemic effects for short-term exposure – dermal: 6.8 mg/kg body weight per day

Local effects for long-term exposure – dermal: moderate risk (no threshold derived)

Local effects for short-term exposure – dermal: moderate risk (no threshold derived)

Systemic effects for long-term exposure – oral: 6.8 mg/kg body weight per day

Systemic effects for short-term exposure – oral: 6.8 mg/kg body weight per day

Eye hazards: moderate risk (no threshold derived)

PNEC

Freshwater: 0.001 mg/l (Anhydrous ammonia)

Marine water: 0.001 mg/l (Anhydrous ammonia)

Soil: 0.022 mg/kg dry soil

Gold (I) ammonium sulphite

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No data available up to now

PNEC

No data available up to now

8.2.

Exposure controls

8.2.1. Appropriate engineering controls

Use under a fume hood. Periodically check the capacity of the hoods.

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection Protective goggles for eyes compliant with Directive 89/686 / EEC and with standard EN166: 2001

Skin protection (hands) Chemical risk gloves compliant with EN420 EN374 standards.

Material: latex, nitrile rubber

Thickness: 0.4 mm

Breakthrough time: > 240 min

Skin protection (body) Complete antacid clothing compliant with the UNI EN 13034: 2006

Respiratory protection Half-face mask with E – P2 filters (yellow-white)

Thermal hazards None

8.2.3. Environmental exposure controls

9.

PHYSICAL AND CHEMICAL PROPERTIES

9.1

Information on basic physical and chemical properties

Physical state	liquid
Colour	Pale yellow
Odour	ammonia
Melting point/freezing point	Data not available
Boiling point or initial boiling point and boiling range	Data not available
Flammability	Not inflammable
Lower and upper explosion limit	Not explosive
Flash point	Not inflammable
Auto-ignition temperature	Not inflammable
Decomposition temperature	Not applicable
pH	> 9 at 20 ° C
Kinematic viscosity	Data not available
Solubility	Fully miscible in water
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	Data not available
Density and/or relative density	1.2 g / cm ³
Relative vapour density	Data not available
Particle characteristics	Not applicable

9.2.

Other information

None

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STABILITY AND REACTIVITY

10.1

Reactivity

The product has reducing characteristics

10.2

Chemical stability

The product is stable under normal conditions

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10.3	Possibility of hazardous reactions Contact with acids liberates toxic gases	
10.4	Conditions to avoid Information not available	
10.5	Incompatible materials The product can react dangerously with acids or oxidizing agents.	
10.6	Hazardous decomposition products Sulfur oxides.	
11	TOXICOLOGICAL INFORMATION	
11.1	Information on hazard classes as defined in Regulation (EC) No 1272/2008	
	Acute toxicity	Based on the available data, the classification criteria are not met
	Skin corrosion / irritation	Irritating to skin and mucous membranes
	Serious eye damage/irritation	Strongly irritating
	Respiratory or skin sensitization	Based on the available data, the classification criteria are not met
	Germ cell mutagenicity	Based on the available data, the classification criteria are not met
	Carcinogenicity	Based on the available data, the classification criteria are not met
	Reproductive toxicity	Based on the available data, the classification criteria are not met
	STOT – single exposure	Irritating to respiratory tract
	STOT – repeated exposure	Based on the available data, the classification criteria are not met
11.2	Information on other hazards None	
12	ECOLOGICAL INFORMATION	
12.1	Toxicity	Based on the available data, the classification criteria are not met
12.2	Persistence and degradability	Not persistent
12.3	Bioaccumulative potential	Not bioaccumulable
12.4	Mobility in soil	The product is soluble and can therefore penetrate the aquifers
12.5	Results of PBT and vPvB assessment	Not applicable
12.6	Endocrine disrupting properties	No known effects
12.7	Other adverse effects	No known effects
13	DISPOSAL CONSIDERATIONS	
13.1	Waste treatment methods The substance and its packaging must be disposed of as hazardous waste and delivered to authorized companies.	
14	TRANSPORT INFORMATION	
14.1	UN number or ID number	Not subject to ADR regulations
14.2	Official UN shipping name	n.a.
14.3	Transport hazard class(es) ADR/RID/IMDG/ICAO-IATA: Class: ADR/RID/IMDG/ICAO-IATA: Label:	n.a. n.a.

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	ADR: Tunnel restriction code	n.a.	
	IMDG - EmS:	n.a.	
14.4	Packing group		
14.5	Dangers for the environment	n.a.	
	ADR/RID/ICAO-IATA:	n.a.	
	IMDG: Marine Contaminant:	n.a.	
14.6	Special precautions for user		
	none		
14.7	Maritime transport in bulk according to IMO instruments		
	Bulk transport is not foreseen		
15	REGULATORY INFORMATION		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		Applicability
	Reg. (EC) 1907/2006 / EC Reach		YES
	Reg. (EC) 1272/2008 CLP and subsequent 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		YES
	Directive 2014/103 / EU "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		Item 3 - 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		
	Changes to sections 1-2-3-8-14-16		
	Acronim and abbreviation legend		
	ADR: European Agreement concerning the International Carriage 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		
	STA: Acute Toxicity Estimate		
	PBT: Persistent, Bioaccumulative and Toxic.		
	vPvB: (very persistent and very bioaccumulative). Very persistent and very bioaccumulative		
	LD: lethal dose		
	PNEC: predicted no effect concentration		
	DNEL: derived no effect level		
	TLV (ceiling value): threshold limit value		
	STEL: short-term exposure limit		

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EU-OEL: European occupational exposure limit

TWA: time-weighted average

EC: effective concentration

NOAEL: no observed adverse effect level

LC: lethal concentration

NOEC: no observed effect concentration

LOEC: lowest observed effect concentration

Bw: body weight

Koc: organic carbon-water partition coefficient

Main references and data sources

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

<https://chem.echa.europa.eu/>

Indication, for mixtures, of which methods of evaluation of the information have been used for the purposes of classification

Classification	Classification procedure
Causes skin irritation	H315 According to 3.3.3.1.2 of Annex I to CLP
Causes serious eye irritation	H319 According to 3.3.3.1.2 of Annex I to CLP

Adequate training for workers in order 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