

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

IRON SULFATE HEPTAHYDRATE



Version 1 Date of compilation: 17/05/2021
Version 2 (replaces version 1) Revision date: 28/12/2023

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

1.1 Product identifier.

Product Name: **IRON SULFATE HEPTAHYDRATE**
Product Code: ALQ0011
Product type: Substance, inorganic
Chemical name/ synonyms: iron (II) sulfate (1:1) heptahydrate; sulfuric acid, iron(II) salt (1:1), heptahydrate; ferrous sulfate heptahydrate
IUPAC name: Iron (II) sulfate (1:1) heptahydrate
Chemical formula: $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$
Index No: 026-003-01-4
CAS No: 7782-63-0
EC No: 231-753-5
Registration No: 01-2119513203-57-XXXX
UFI: Not applicable, the product is a substance.

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

Industrial generic, raw material. Only for professional user/industrial user.

Uses advised against:

All uses not specified in this section or in section 7.3. Due to lack of experience or data, the supplier cannot approve other unspecified use.

1.3 Details of the supplier of the safety data sheet.

Company: **ALQUERA CIENCIA SL**
Address: C/ Vilar de Donas 9
City: 28050 - Madrid
Province: Madrid (Spain)
Telephone: 0034 620 88 75 97
E-mail: info@alquera.com
Web: <https://www.alquera.com>

1.4 Emergency telephone number: 0034 620 88 75 97 (SDS) (Only available during office hours; Monday-Friday; 09:00-18:00)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

In accordance with Regulation (EC) No 1272/2008:

Acute Tox. 4 : Harmful if swallowed.
Eye Irrit. 2 : Causes serious eye irritation.
Skin Irrit. 2 : Causes skin irritation.

2.2 Label elements.

Labelling in accordance with Regulation (EC) No 1272/2008:

Pictograms:



Signal Word:

Warning

Hazard statements:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

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Precautionary statements:

P102	Keep out of reach of children.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell
P302+P352	IF ON SKIN: Wash with plenty of water.
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 current national/local regulations on hazardous waste.

2.3 Other hazards.

The product may have the following additional risks:

The substance is not PBT

The substance is not vPvB

The product does not meet the criteria to be considered PBT or vPvB according to Regulation (EC) No. 1907/2006 (REACH), Annex XIII.

Substance does not have endocrine disrupting properties.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Mono-constituent.

Chemical name/synonyms: iron (II) sulfate (1:1) heptahydrate; sulfuric acid, iron(II) salt (1:1), heptahydrate; ferrous sulfate heptahydrate

IUPAC name: Iron (II) sulfate (1:1) heptahydrate

Chemical formula: $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$
Index No: 026-003-01-4
CAS No: 7782-63-0
EC No: 231-753-5
Registration No: 01-2119513203-57-XXXX

Identifiers	Name	Concentration	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	Specifics concentration limits and Acute toxicity estimate
Index No: 026-003-01-4 CAS No: 7782-63-0 EC No: 231-753-5	iron (II) sulfate (1:1) heptahydrate	>90 %	Acute Tox. 4 *, H302 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315	Skin Irrit. 2, H315: C \geq 25 %

Impurities or additives that affect the classification:

Identifiers	Name	Concentration	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	Specifics concentration limits and Acute toxicity estimate
Index No: 016-020-00-8 CAS No: 7664-93-9 EC No: 231-639-5	[1] sulphuric acid	< 2.5 %	Skin Corr. 1A, H314	Skin Corr. 1A, H314: C \geq 15 % Skin Irrit. 2, H315: 5 % \leq C < 15 % Eye Irrit. 2, H319: 5 % \leq C < 15 %

(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

* See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[1] Substance with a community workplace exposure limit (see section 8.1).

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3.2 Mixtures.

Not applicable.

SECTION 4: FIRST AID MEASURES.

IRRITANT MIXTURE. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 15 minutes while pulling eyelids up and seek medical assistance. Do not allow the person to rub the affected eye or close it. In all cases, after washing, seek medical advice as soon as possible with the safety data sheet of the product.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners. In case of serious illness seek medical advice. If the product causes burns or frostbite, clothing should not be removed because it could worsen the lesion produced if it is stuck to the skin. If blisters form on the skin, they should never burst as this would increase the infection risk.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

If vomiting occurs, keep head tilted forward to avoid aspiration. In case of loss of consciousness, do not administer anything by mouth until medically supervised. Rinse the mouth and throat, as there is a possibility that they may have been affected by ingestion. Keep the affected person at rest.

4.2 Most important symptoms and effects, both acute and delayed.

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract.

Symptomatic treatment.

SECTION 5: FIREFIGHTING MEASURES.

The product is NOT classified as flammable, in case of fire the following measures should be taken:

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray, in accordance with the Fire Protection Installations Regulation

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture.

Special risks.

Hazardous combustion products: sulfur oxides. Exposure to combustion or decomposition products may be harmful to health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways.

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Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.
Avoid dust inhalation.

6.2 Environmental precautions.

Product not classified as hazardous for the environment, avoid spillage as much as possible.

6.3 Methods and material for containment and cleaning up.

Contain and mechanically collect the spillage, clean up the area immediately with a suitable decontaminant.
Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8.
In the application area, smoking, eating, and drinking must be prohibited.
Follow legislation on occupational health and safety.
Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 35 °C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s).

See section 1.2. Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
sulphuric acid	7664-93-9	European Union [1]	Eight hours		0.05
			Short term		

[1] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

This is a dusty product. The workplace exposure limit (WEL) for dust (EH40) is:

- 8-hour TWA inhalable dust: 10 mg/m³
- 8-hour TWA respirable dust: 4 mg/m³

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Spain (INSST):

- VLA-ED particles not otherwise specified. Inhalable fraction 10 mg/m³
- VLA-ED particles not otherwise specified. Respirable fraction 3 mg/m³

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
sulphuric acid CAS No: 7664-93-9 EC No: 231-639-5	DNEL (Workers)	Inhalation, Chronic, Local effects	0.05 (mg/m ³)
	DNEL (Workers)	Inhalation, Short term, Local effects	0.1 (mg/m ³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
sulphuric acid CAS No: 7664-93-9 EC No: 231-639-5	STP	8.8 (mg/L)
	Freshwater	0,0025 (mg/L)
	Marine water	0.00025 (mg/L)
	Sediment (freshwater/marinewater)	0.002 (mg/kg)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system. Individual protection measures, such as personal protective equipment As a preventative measure it is recommended to use basic Personal Protective Equipment, in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

Respiratory protection

The use of protective equipment will be necessary in case of mist formation or in case of exceeding occupational exposure limits if they exist (see section 8.1). Wear respiratory protection in case of dust generation. Wear respiratory protection in case of prolonged exposure.

Specific protection for the hands

Replace the gloves at any sign of deterioration. Penetration time >480 min (permanent contact protection). The breakthrough time of the selected gloves should be in accordance with the intended period of use. Various factors (e.g. temperature) mean that in practice the breakthrough time of chemical-resistant protective gloves is significantly shorter than the EN374 standard. An increase in temperature due to hot substances, body heat, etc. and a weakening of the effective thickness due to expansion can lead to a significant shortening of the breakthrough time. For the selection of a specific type of glove for a given application, with a certain duration, should take into account (but not be limited to) relevant factors in the workplace, such as: other chemicals to be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential allergies to the glove material itself, etc.... Due to the wide variety of circumstances and possibilities, the instruction manual of the glove manufacturers should be taken into account. Gloves should be replaced immediately if signs of degradation are observed.

Additional emergency measures

Emergency shower: ANSI Z358-1, ISO 3864-1:2011, ISO 3864-4:2011

Eyewash stations: DIN 12 899, ISO 3864-1:2011, ISO 3864-4:2011

Recommendations to prevent toxicological risks:

Do not eat, drink or smoke during handling. After handling, wash hands with soap and water.

Advice on personal protection is valid for high levels of exposure.

Choose personal protection adapted to the risks of exposure.

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Concentration:	100 %				
Uses:	Industrial generic, raw material. Only for professional user/industrial user.				
Breathing protection:					
PPE:	Particle filter mask				
Characteristics:	«CE» marking, category III. Made of filtering material, it covers nose, mouth and chin.				
CEN standards:	EN 149				
Maintenance:	Check for any tears, defects, etc. before use. Since it is disposable individual protection equipment, it should be replaced after use.				
Observations:	Does not protect worker unless properly adjusted. Follow the manufacturer's instructions regarding suitable use of the equipment.				
Filter Type needed:	P2				
Hand protection:					
PPE:	Protective gloves against chemicals.				
Characteristics:	«CE» marking, category III.				
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420				
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.				
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.				
Material:	PVC (polyvinyl chloride)/nitrile rubber	Breakthrough time (min.):	> 480	Material thickness (mm):	0,11
Eye protection:					
PPE:	Protective goggles against particle impacts.				
Characteristics:	«CE» marking, category II. Eye protector against dust and smoke.				
CEN standards:	EN 165, EN 166, EN 167, EN 168				
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.				
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.				
Skin protection:					
PPE:	Protective clothing.				
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.				
CEN standards:	EN 340				
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.				
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.				
PPE:	Work footwear.				
Characteristics:	«CE» marking, category II.				
CEN standards:	EN ISO 13287, EN 20347				
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.				
Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident				

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

For more details see technical data sheet/specification sheet.

Appearance :

Physical state (20°C): Solid – Dust (cystalline).

Colour: blue-green.

Odour: odourless.

Odour threshold: Not relevant due to the nature of the product, not providing information characteristic of its dangerousness.

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Volatility:

Boiling point or initial boiling point and boiling range: at 300 °C dehydration occurs.
Vapour pressure: N.A.
Vapour density (air=1): N.A.
Evaporation rate: N.A.

Flammability:

Flash point: N.A.
Flammability: Not flammable product.
Lower explosion limit: N.A.
Upper explosion limit: N.A.
Auto-ignition temperature: N.A.

Product description:

Melting point: partial loss of water occurs at 60°C.
Decomposition temperature: >300 °C
pH: 4.6 (100 mg/l).
Kinematic viscosity: Not applicable, solid.
Dynamic viscosity: Not applicable, solid.
Solubility: soluble in water (25°C).
Liposolubility: N.A.
Hydrosolubility: >100 g/l (20°C, pH 3.7)
Relative density (water=1): 2.97
Partition coefficient n-octanol/water (log value): Not applicable, inorganic substance.

Particle characteristics:

Median equivalent diameter: Not available.

N.A.= Not Available/Non- Applicable due to the nature of the product, not providing information property of its hazards

9.2 Other information

Explosive properties: Non explosive. Method: Expert judgment. There are no chemical groups associated with explosive properties present, therefore, according to REACH, Annex VII, 7.11, column 2, the study is not necessary.

Oxidizing properties: non-oxidizing. Method: Expert judgment The product does not contain organic peroxide groups resulting from the manufacturing process or added ingredients. Based on the chemical structure, the mixture is incapable of exothermic reaction with combustible materials. According to REACH, Annex VII, 7.13, column 2, the study does not need to be carried out.

Drop point: N.A.
Scintillation: N.A.
% Solids: 100%.

N.A.= Not Available/Non- Applicable due to the nature of the product, not providing information property of its hazards

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity under the recommended handling and storage conditions (see section 7).

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

Strong reactions with highly oxidizing substances, alkalis or strong bases (e.g. bleach).

10.4 Conditions to avoid.

Avoid any improper handling.
Avoid direct light. Keep away from heat. Decomposition begins at temperatures >300 °C.
Protect from moisture.
Avoid contact with strong alkalis or bases, oxidizers.
Avoid dust formation / dust inhalation.

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10.5 Incompatible materials.

Keep away from/avoid the following materials:

- Strong alkalis or bases.
- Oxidizing agents.

May generate NO_x when in contact with ammonium nitrate.

May act as a reductant with strong oxidizing agents.

10.6 Hazardous decomposition products.

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition will generate toxic vapors (sulfur oxides).

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on hazard classes as defined in Regulation (EC) N° 1272/2008.

IRRITANT MIXTURE. Splashes in the eyes can cause irritation.

Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Most likely routes of exposure: skin or eye contact, inhalation.

Toxicological information.

No experimental data are available for the product itself concerning toxicological properties.

Name	Acute toxicity			
	Type	Test	Kind	Value
iron (II) sulfate (1:1) heptahydrate, sulfuric acid, iron(II) salt (1:1), heptahydrate, ferrous sulfate heptahydrate CAS No: 7782-63-0 EC No: 231-753-5	Oral	DL50 [1] TOXNET	Rat	1520 mg/kg [1]
	Dermal			
	Inhalation			
sulphuric acid CAS No: 7664-93-9 EC No: 231-639-5	Oral	LD50 [1] Smyth et al., (1969) Range-finding toxicity data : list VII. Am. Ind. Hyg. Ass. J. 30, 470 - 476.	Rat	2140 mg/kg bw [1]
	Dermal			
	Inhalation	LC50 LC50 LC50 [1] aerosol, Runkle BK & Hahn FF 1976 [2] aerosol, ATSDR 1998 [3] vapour, Izmerov NF et al. 1982	Rat Guinea pig Rat	375 mg/m ³ [1] 18 mg/m ³ air [2] 0.51 mg/l air [3]

a) acute toxicity;

Product classified:

Acute toxicity (Oral), Category 4: Harmful if swallowed.

Ingestion of a considerable dose may cause throat irritation, abdominal pain, nausea and vomiting.

b) skin corrosion/irritation;

Product classified:

Skin irritant, Category 2: Causes skin irritation.

pH:4.6 (100 mg/l)

c) serious eye damage/irritation;

Product classified:

Eye irritation, Category 2: Causes serious eye irritation.

pH:4.6 (100 mg/l)

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d) respiratory or skin sensitisation;
Not conclusive data for classification.

e) germ cell mutagenicity;
Not conclusive data for classification.

f) carcinogenicity;
Not conclusive data for classification.

g) reproductive toxicity;
Not conclusive data for classification.

h) STOT-single exposure;
Not conclusive data for classification.

i) STOT-repeated exposure;
Not conclusive data for classification.

j) aspiration hazard;
Not conclusive data for classification. Not applicable, solid.

11.2 Information on other hazards.

Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

Other information

There is no information available on other adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

This substance is not classified as dangerous for the environment according to Regulation (EC) No. 1272/2008 (CLP).

12.2 Persistence and degradability.

For inorganic metal salts such as the iron salt category, the concept of biodegradation is not applicable in general.

No information is available on the degradability
No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation.

12.4 Mobility in soil.

No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product, inorganic substance,

12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

12.7 Other adverse effects.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.
No information is available about other adverse effects for the environment.

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SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Waste type (Regulation (EU) No. 1357/2014):

HP14 irritant- skin irritation and eye damage; HP6 Acute toxicity.

Waste management (disposal and recovery):

Consult the authorized waste manager for recovery and disposal operations. If the container has been in direct contact with the product, it should be managed in the same way as the product itself, otherwise it should be managed as non-hazardous waste. Discharge into watercourses is not recommended. See section 6.2.

Legislative provisions related to waste management:

According to Annex II of Regulation (EC) No 1907/2006 (REACH), the Community or State provisions related to waste management are listed:

Community regulation: Directive 2008/98/EC, Decision 2014/955/EU, Directive (EU) 2018/851, Directive (EU) 2019/904. Regulation (EU) No. 1357/2014 its amendments and updates.

Local/national regulation.

It is not possible to assign a specific code, as it depends on the user's intended use.

SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

14.1 UN number or ID number.

Transportation is not dangerous.

14.2 UN proper shipping name.

Description:

ADR/RID: Not classified as hazardous for transport.

IMDG: Not classified as hazardous for transport.

ICAO/IATA: Not classified as hazardous for transport.

14.3 Transport hazard class(es).

Transportation is not dangerous.

14.4 Packing group.

Transportation is not dangerous.

14.5 Environmental hazards.

Transportation is not dangerous.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): Not applicable.

14.6 Special precautions for user.

Transportation is not dangerous.

14.7 Maritime transport in bulk according to IMO instruments.

Not classified as hazardous for transport.

SECTION 15: REGULATORY INFORMATION.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

Volatile organic compound (VOC)

VOC content (p/p): 0 %

VOC content: 0 g/l

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

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The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

REACH Annex XVII (Restriction List): Contains no substances/uses subject to restrictions according to REACH Annex XVII.

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable.

Candidate substances (SVHC) for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment.

A Chemical Safety Assessment has been carried out for this substance by the supplier.

SECTION 16: OTHER INFORMATION.

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modification history:

-Version 1: date of compilation: 17/05/2021. Initial edition.

-Version 2: revision date: 28/12/2023. Update to regulation (EU) 2020/878.

Addition of the product code, section 1.1.

Dust limit value added, section 8.1.

Physical and chemical data added, section 9.

Toxicological data, section 11.

Updated residue regulations, section 13.

Regulatory references added, Section 15.

Complete text of the H phrases that appear in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Classification codes:

Acute Tox. 4 : Acute toxicity (Oral), Category 4

Eye Irrit. 2 : Eye irritation, Category 2

Skin Corr. 1A : Skin Corrosive, Category 1A

Skin Irrit. 2 : Skin irritant, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards	On basis of test data/Calculation method
Health hazards	Calculation method
Environmental hazards	Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

ADR: European agreement concerning the international carriage of dangerous goods by road.

AwSV: Facility Regulations for handling substances that are hazardous for the water.

BCF: Bioconcentration factor.

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

IRON SULFATE HEPTAHYDRATE



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EC50: Half maximal effective concentration.
IATA: International Air Transport Association
IARC: International Agency for Research on Cancer.
ICAO: International Civil Aviation Organisation
IMDG: International maritime dangerous goods code
Koc: Partition coefficient of organic carbon.
LogPOW: Octanolwater partition coefficient.
PPE: Personal protection equipment.
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.
PBT: Persistent, bioaccumulative, toxic.
PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.
SDS: Safety Data Sheet.
UFI: Unique formula identifier.
vPvB: very Persistent, very bioaccumulative.
WGK: Water hazard classes.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2020/878.

Regulation (EC) No 1907/2006.

Regulation (EC) No 1272/2008.

GESTIS SUBSTANCE DATABASE.

SUPPLIER'S SAFETY DATA SHEET.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.