Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 01/06/2022 Version: 0.0 Doc No: SDS-936.026/3



SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: Iron (II) Sulfate Heptahydrate
EC Index No	: 026-003-01-4
EC No	: 231-753-5
CAS No	: 7782-63-0
Type of product	: Pure substance
Formula	: FeSO ₄ .7H ₂ O
Synonyms	: copperas, green / copperas, heptahydrate / duretter, heptahydrate / duroferon, heptahydrate / exsiccated ferrous sulfate / exsiccated ferrous sulphate / feosol / feospan / fer in sol / fero gradumet / ferralyn / ferro theron / ferrosulfate, heptahydrate / ferrous sulfate, heptahydrate / fesofor / fesotyme / green vitrol / haemofort / iron sulfate, heptahydrate / iron sulphate, heptahydrate / iron vitriol, heptahydrate / iron(II)sulfate-7-hydrate / ironate / ironmonosulfate, heptahydrate / ironous sulfate, heptahydrate / irospan / irosul / melanterite / melanterite, natural / mol-iron / presfersul / slow-Fe / sulfate, sugar / sulferrous / sulfuric acid iron salt, heptahydrate / sulfuric acid, iron(2+) salt (1:1), heptahydrate / vitriol, green, heptahydrate
1.2. Relevant identified uses of the sul	bstance or mixture and uses advised against
1.2.1.Relevant identified uses Use of the substance/mixture	: Laboratory Chemical

1.2.2. Uses advised against

Restrictions on use

: No additional information available.

1.3. Details of the supplier of the safety data sheet ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Turkey	Ulusal Zehir Merkezi (UZEM) Refik Saydam Hıfzıssıhha Merkezi Başkanlığı	Cemal Gürsel Cd. No: 18 Sıhhiye Çankaya 06590 Ankara	114	Information is provided to public and medical personnel on poisoning incidents via 114.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4H302Serious eye damage/eye irritation, Category 2H319Skin corrosion/irritation, Category 2H315

Full text of hazard classes and H-statements : see section 16

Specific concentration limits:

(C >= 25) Skin Irrit. 2, H315

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H302 - Harmful if swallowed H319 - Causes serious eye irritation H315 - Causes skin irritation
Precautionary statements (CLP)	: P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name	Product identifier	%
Iron (II) Sulfate Heptahydrate	(CAS No) 7782-63-0 (EC No) 231-753-5 (EC Index No) 026-003-01-4	<= 100

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Victim is fully conscious: immediately induce vomiting. Induce vomiting by giving a 0.9 % saline solution. Cal Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you fee unwell. Ingestion of large quantities: immediately to hospital. Doctor: administration of chemica antidote. Doctor: gastric lavage.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries after inhalation	: AFTER INHALATION OF DUST: Dry/sore throat. Irritation of the respiratory tract. Irritation of the nasal mucous membranes.
Symptoms/injuries after skin contact	: Red skin. Itching. Tingling/irritation of the skin.
Symptoms/injuries after eye contact	: Irritation of the eye tissue.
Symptoms/injuries after ingestion	: Nausea. Vomiting. AFTER ABSORPTION OF HIGH QUANTITIES: Uncontrollable bleeding tendency. Blood in vomit. FOLLOWING SYMPTOMS MAY APPEAR LATER: Blood in stool. Low arterial pressure. Blue/grey discolouration of the skin. Shock. Urine discolouration. Enlargement/affection of the liver.
4.3. Indication of any immediate medica	l attention and special treatment needed

No additional information available



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SECTION 5: Fire-fighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Adapt extinguishing media to the environment.
Unsuitable extinguishing media	: No unsuitable extinguishing media known.
5.2. Special hazards arising from the s	
Fire hazard	: DIRECT FIRE HAZARD. Non combustible.
Explosion hazard	: DIRECT EXPLOSION HAZARD. No data available on direct explosion hazard. INDIRECT EXPLOSION HAZARD. No data available on indirect explosion hazard.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: Dilute toxic gases with water spray.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
SECTION 6: Accidental release mea	
	quipment and emergency procedures
6.1.1. For non-emergency personnel Protective equipment	: Gloves. Face-shield. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Dust cloud production: dust-tight suit.
Emergency procedures	 Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.
Measures in case of dust release	 In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.
04.0 Francisco de la companya	
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for containn	nent and cleaning up
For containment	: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.
Methods for cleaning up	: Stop dust cloud by humidifying. Scoop solid spill into closing containers. See "Material- handling" for suitable container materials. Wash down leftovers with plenty of water. Wash clothing and equipment after handling.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Comply with the legal requirements. Remove contaminated clothing immediately. Thoroughly clean/dry the installation before use. Avoid raising dust. Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.
7.2. Conditions for safe storage, includ	ling any incompatibilities
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) bases. water/moisture.
Storage area	: Store in a dry area. Store at ambient temperature. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: hermetical. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: cardboard. wood. synthetic material. glass.
7.3. Specific end use(s)	
March 1997 and 1977 and 1977	

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control param	eters		
Iron (II) Sulfate Heptah	Iron (II) Sulfate Heptahydrate (7782-63-0)		
Belgium	Limit value (mg/m ³)	1 mg/m ³ (Fer (sels solubles) (en Fe); Belgium; Time- weighted average exposure limit 8 h)	
United Kingdom	WEL TWA (mg/m³)	1 mg/m ³ Iron salts (as Fe); United Kingdom; Time- weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)	
United Kingdom	WEL STEL (mg/m ³)	2 mg/m ³ Iron salts (as Fe); United Kingdom; Short time value; Workplace exposure limit (EH40/2005)	
USA - ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³ (Iron salts, soluble, as Fe; USA; Time- weighted average exposure limit 8 h; TLV - Adopted Value)	

8.2. Exposure controls

Personal protective equipment:

Gloves. Protective goggles. Dustproof clothing.

Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: butyl rubber. chlorosulfonated polyethylene. natural rubber. neoprene. polyurethane. PVC. nitrile rubber/PVC. GIVE GOOD RESISTANCE: chloroprene rubber. chlorinated polyethylene. viton. GIVE LESS RESISTANCE: nitrile rubber

Condition	Material	Standard
	Butyl rubber, Chlorosulfonated polyethylene, Natural rubber, Neoprene, Polyurethane, Polyvinylchloride (PVC) , Nitrile rubber/PVC	
Good resistance:	Chloroprene rubber, Chlorinated polyethylene, Viton	
Less resistance:	Nitrile rubber	

Hand protection:

Gloves

Eye protection:

Face shield. In case of dust production: protective goggles

Skin and body protection:

Protective clothing. In case of dust production: head/neck protection. In case of dust production: dustproof clothing

Respiratory protection:

Dust production: dust mask with filter type P2

Device	Filter type	Condition	Standard
Dust mask	Туре Р2	Dust protection	



SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Appearance	: Crystalline solid. Grains.	
Molecular mass	: 278.02 g/mol	
Colour	: Blue-green. On exposure to air: yellow-brown.	
Odour	: Odourless.	
Odour threshold	: No data available	

Iron (II) Sulfate Heptahydrate Safety Data Sheet

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aH solution : 5 % Relative evaporation rate (butylacetate=1) : No data available Welting point : No data available Soling point : No data available Soling point : No data available Soling point : No data available Batter point : No data available Decomposition temperature : No data available Decomposition temperature : No data available Vapour pressure : No data available Vapour pressure : No data available Relative density : 1.9 Density : 1.89 ag/cm3 (20 °C) Solubility : Soluble in water. Soluble in methanol. Soluble in glycerol. vater. 400 gi (20 °C) : No data available Viscostiy, kinematic : No data available Viscostiy, dynamic : No data available Solubility : No data available Viscostiy, dynamic : No data available Soludiaing properties : No data available Other Information : Substance has acid reaction. SECTION 10: Stability and reactivity : Substance has acid reaction. Other information : Substance has		
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Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available Explosive limits : No data available 92. Other information : Not applicable VCC content : Not applicable : Other properties : Substance has acid reaction. SECTION 10: Stability and reactivity : Substance has acid reaction. On burning: release of toxic and corrosive gases/vapours (sulphur oxides). Oxidizes slowly in moist air. Reacts with (some) bases. : 10.1. Reactivity : : On burning: release of toxic and corrosive gases/vapours (sulphur oxides). Oxidizes slowly in moist air. Reacts with (some) bases. : 10.2. Chemical stability : : 10.3. Possibility of hazardous reactions : : No additional information available : : : 10.4. Conditions to avoid : : : No additional information available : : : : 10.5. incompatible materials	Viscosity, kinematic	: No data available
Oxidising properties : No data available Explosive limits : No data available 9. Other information VCC content : Not applicable Other properties : Substance has acid reaction. SECTION 10: Stability and reactivity To hum properties Substance has acid reaction. SECTION 10: Stability and reactivity To hum properties Substance has acid reaction. SECTION 10: Stability and reactivity To hum properties To hum properties Substance has acid reaction. SECTION 10: Stability and reactivity To hum properties To hum proproperties		

11.1. Information on toxicological	effects	
Acute toxicity	: Oral: Harmful if swallowed.	
Iron (II) Sulfate Heptahydrate (7782-6	3-0)	
LD50 oral rat	319 mg/kg	
Skin corrosion/irritation	: Causes skin irritation. pH: 3 (5.0 %)	
Serious eye damage/irritation	: Causes serious eye irritation. pH: 3 (5.0 %)	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
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SECTION 42. Ecological inform



Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Mild water pollutant (surface water). Maximum concentration in drinking water: 0.200 mg/l (iror (Directive 98/83/EC); 250 mg/l (sulfate) (Directive 98/83/EC). Slightly harmful to fishes (LC50(96h) 100-1000 mg/l). Slightly harmful to invertebrates (Daphnia) (EC50 (48h): 100 - 1000 mg/l). Slightly harmful to bacteria (EC50: 100 - 1000 mg/l). pH shift. Not harmful to activated sludge.
Iron (II) Sulfate Heptahydrate (7	782-63-0)
LC50 fish 1	925 mg/l (LC50; 96 h; Poecilia reticulata)
EC50 Daphnia 2	152 mg/l (EC50; 48 h)

Iron (II) Sulfate Heptahydrate (7782-63-0)	
Persistence and degradability	Biodegradability in water: no data available. Biodegradability in soil: no data available. Adsorbs into the soil.
12.3. Bioaccumulative potential	

Iron (I	Iron (II) Sulfate Heptahydrate (7782-63-0)	
Bioaco	Bioaccumulative potential Not bioaccumulative.	
12.4.	Mobility in soil	

No additional information available

Results of PBT and vPvB assessment 12.5.

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Product/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Precipitate/make insoluble. Remove to an authorized dump (Class I).	
Additional information	: LWCA (the Netherlands): KGA category 05. Hazardous waste according to Directive 2008/98/EC.	

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number		
UN-No. (ADR)	: Not applicable	
UN-No. (IMDG)	: Not applicable	
UN-No. (IATA)	: Not applicable	
UN-No. (ADN)	: Not applicable	
UN-No. (RID)	: Not applicable	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: Not applicable	
Proper Shipping Name (IMDG)	: Not applicable	
Proper Shipping Name (IATA)	: Not applicable	
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Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Iron (II) Sulfate Heptahydrate is not on the REACH Candidate List Iron (II) Sulfate Heptahydrate is not on the REACH Annex XIV List

VOC content

: Not applicable

Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 01/06/2022 Version: 0.0 Doc No: SDS-936.026/3

15.1.2. National regulations

Germany

VwVwS Annex reference	: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 514)
WGK remark	 Classification water polluting in compliance with Verwaltungsvorschrift wassergef
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-staten	nents:
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation

SDS ISOLAB

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

