

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/22/2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Substance

Trade name : Ferrous Sulfate, Heptahydrate

CAS No 7782-63-0 : FeSO4.7H2O Formula

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(II)salt, heptahydrate / sulfuric acid, iron(2+) salt (1:1), heptahydrate / vitriol,

green, heptahydrate

15905 RIG no

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

Use of the substance/mixture Herbicide

Fertilizer: raw material

Animal feeding stuff: supplement Food industry: supplement

Details of the supplier of the safety data sheet

Two Rivers Terminal 3300 North Glade Road Pasco, Wa. 99302 - USA T 509-547-7776 - F 509-546-9508 www.tworiversterminal.com

Emergency telephone number

Emergency number : 24 Hour Emergency HAZMAT Response: (800) 229-5252; EPA National Response Center

(800) 424-8802

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification (GHS-US)

Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315

Full text of H-phrases: see section 16

Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



: Warning

Signal word (GHS-US)

Hazard statements (GHS-US) H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation

P264 - Wash Skin thoroughly after handling Precautionary statements (GHS-US)

P270 - Do not eat, drink or smoke when using this product

P280 - Wear eye protection, protective gloves

P301+P312 - If swallowed: Call a 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

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P321 - Specific treatment (see Section 4 on this label)

P330 - Rinse mouth

P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P501 - Dispose of contents/container to an authorized waste collection point

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%	Classification (GHS-US)
iron(II) sulfate, heptahydrate (Main constituent)	(CAS No) 7782-63-0	100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2. H315

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1 Description of first aid measure

4.1.	Descript	ווו וט ווטו	St alu II	ieasui e

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. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Doctor: administration of chemical antidote. Doctor: gastric lavage.

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

Symptoms/injuries

: If you feel unwell, seek medical advice (show the label where possible).

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 medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting 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 substance or mixture

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.

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Reactivity : On burning: release of toxic and corrosive gases/vapours (sulphur oxides). Oxidizes slowly in

moist air. Reacts with (some) bases.

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 measures

Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

: Gloves, Face-shield, Protective clothing, Dust cloud production; compressed air/oxygen Protective equipment

apparatus. Dust cloud production: dust-tight suit.

: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash Emergency procedures

contaminated clothes.

In case of dust production: keep upwind. Dust production: have neighbourhood close doors and Measures in case of dust release

windows.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8 Exposure controls/personal protection" ".

Environmental precautions

Avoid release to the environment.

Methods and material for containment and cleaning up

: Contain released substance, pump into suitable containers. Consult "Material-handling" to For containment

select material of containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud

with water spray.

Stop dust cloud by humidifying. Scoop solid spill into closing containers. See "Material-Methods for cleaning up

handling" for suitable container materials. Wash down leftovers with plenty of water. Wash

clothing and equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

Reference to other sections

For further information refer to section 8: Exposure-controls/personal protection"".

SECTION 7: Handling and storage

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.

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Hygiene measures

Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

: Store in a well-ventilated place. Keep cool. Storage conditions

: KEEP SUBSTANCE AWAY FROM: heat sources. Heat-ignition

Prohibitions on mixed storage KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) bases. water/moisture.

: Store in a dry area. Store at ambient temperature. Meet the legal requirements. Storage area

Special rules on packaging SPECIAL REQUIREMENTS: hermetical. watertight. dry. clean. correctly labelled. meet the

legal requirements. Secure fragile packagings in solid containers.

: SUITABLE MATERIAL: cardboard. wood. synthetic material. glass. Packaging materials

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

Ferrous Sulfate, Heptahydrate (7782-63-0)			
ACGIH	ACGIH TWA (mg/m³)	1 mg/m³	
05/00/0045	EN (E - 154 HO)		0.10

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Ferrous Sulfate, Heptahydrate (7782-63-0)	
OSHA	Not applicable

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

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.

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.

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Grains.

Color : Blue-green On exposure to air: yellow-brown

Odor : Odourless

Odor threshold : No data available

pH : 3.0 (5.0 %)
pH solution : 5.0 %
Melting point : 64 °C

Freezing point : Not applicable Boiling point : Not applicable Flash point : Not applicable Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) : No data available **Explosion limits** : Not applicable Explosive properties No data available Oxidizing properties : No data available Vapor pressure · < 0.1 hPa

Relative density : 1.9
Relative vapor density at 20 °C : No data available

Specific gravity / density : 1898 kg/m³
Molecular mass : 278.05 g/mol

Solubility : Soluble in water. Soluble in methanol. Soluble in glycerol.

Water: 42 g/100ml

Log Pow : No data available
Log Kow : No data available
Auto-ignition temperature : Not applicable
Decomposition temperature : > 400 °C
Viscosity : No data available

Viscosity, kinematic : Not applicable
Viscosity, dynamic : No data available

9.2. Other information

VOC content : Not applicable

Other properties : Substance has acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of toxic and corrosive gases/vapours (sulphur oxides). Oxidizes slowly in moist air. Reacts with (some) bases.

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10.2. Chemical stability

Unstable on exposure to air.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Sulfur oxides. Iron Oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Inhalation; Dermal

Acute toxicity : Oral: Harmful if swallowed.

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Ferrous Sulfate, Heptahydrate (7782-63-0)	
LD50 oral rat	1480 mg/kg (Rat)
ATE US (oral)	1480.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
	pH: 3.0 (5.0 %)
Serious eye damage/irritation	: Not classified
	pH: 3.0 (5.0 %)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified

Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated : Not classified

oversity (repeated

exposure)

NOT Classified

Aspiration hazard : Not classified

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.

SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
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 (iron) (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.

Ferrous Sulfate, Heptahydrate (7782-63-0)	
LC50 fish 1	925 mg/l (96 h; Poecilia reticulata)
EC50 Daphnia 1	7.2 mg/l (48 h; Daphnia magna; Metal ion)
LC50 fish 2	> 200 mg/l (48 h; Leuciscus idus)

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Ferrous Sulfate, Heptahydrate (7782-63-0)		
	EC50 Daphnia 2	152 mg/l (48 h; Daphnia magna; Anhydrous form)

12.2. Persistence and degradability

Ferrous 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

Ferrous Sulfate, Heptahydrate (7782-63-0)	
Bioaccumulative potential	Not bioaccumulative.

12.4. **Mobility in soil**

No additional information available

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Waste treatment methods

Waste 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

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN3077 Environmentally hazardous substances, solid, n.o.s. (Iron (II) Sulfate, Heptahydrate),

9, III

: UN3077 UN-No.(DOT)

Proper Shipping Name (DOT) : Environmentally hazardous substances, solid, n.o.s.

Iron (II) Sulfate, Heptahydrate

: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140 Hazard Classes (DOT)

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)



Packing group (DOT) : III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 213 DOT Packaging Bulk (49 CFR 173.xxx) : 240

DOT Symbols : G - Identifies PSN requiring a technical name

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DOT Special Provisions (49 CFR 172.102)

- : 8 A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.
 - 146 This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.
 - 335 Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.

A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg:

- a. Metal: 11A, 11B, 11N, 21A, 21B and 21N
- b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2
- c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2
- d. Fiberboard: 11G
- e. Wooden: 11C, 11D and 11F (with inner liners)

f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner). B54 - Open-top, sift-proof rail cars are also authorized.

IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).

IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.

N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle. T1 - 1.5 178.274(d)(2) Normal...... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx)

DOT Quantity Limitations Passenger aircraft/rail : No limit

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : No limit

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

UN-No. (IMDG) : 3077

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Class (IMDG) : 9 - Miscellaneous dangerous compounds
Packing group (IMDG) : III - substances presenting low danger

Air transport

UN-No.(IATA) : 3077

Proper Shipping Name (IATA) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

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Class (IATA) : 9 - Miscellaneous Dangerous Goods

Packing group (IATA) : III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Ferrous Sulfate, Heptanydrate (7/82-63-0)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
Not listed on SARA Section 313 (Specific toxic chemical listings)	

RQ (Reportable quantity, section 304 of EPA's List of Lists) 1000 lb

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

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

 Acute Tox. 4 (Oral)
 H302

 Eye Irrit. 2
 H319

 Skin Irrit. 2
 H315

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R22 Xi; R36/38

Full text of R-phrases: see section 16

National regulations

No additional information available

15.3. US State regulations

Ferrous Sulfate, Heptahydrate(7782-63-0)	
State or local regulations	U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Full text of H-phrases:

ok or it piliacee.		
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	H302	Harmful if swallowed
	H315	Causes skin irritation

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with

some release of energy, but not violently.



SDS US (GHS HazCom 2012)

All information contained in this Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applilicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you, and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee is expressed or implied as to the results to be obtained based upon your use of the information.

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