Sayfa No: **1**/13

MATERIAL SAFETY DATA SHEET

Prepared in accordance with the "Regulation on Safety Data Sheets on Hazardous Substances and Mixtures (Official Gazette dated 13.12.2014 and numbered 29204) and (EU) No 1272/2008

FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 1 Preparation Arrangement:

.1 Mixture ID	
Trade Name	FERROUS(IRON) SULPHATE HEPTAHYDRATE
EG/EINECS no	231-753-5
CAS no	7720-78-7
Formule	FeSO4.7H2O
.2 Identified and Suggest	ed Uses of the Mixture
Designated Use	Soil additive/regulator, pesticide, feed additive and antiseptic; Leather and fabric color stabilizer in textile, Refining of Copper; pharmaceutical making, wood preservative, Engraving and Lithography; In mineral ore processing, rubber and stee processing. in the cement industry

Savfa No: 2/13

MATERIAL SAFETY DATA SHEET

Prepared in accordance with the "Regulation on Safety Data Sheets on Hazardous Substances and Mixtures (Official Gazette dated 13.12.2014 and numbered 29204) and (EU) No 1272/2008

FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 1 Preparation Arrangement:

2HAZARDS IDENTIFICATION

2.1 Classification of the Mixture:

2.1.1 Hazard classification

Akut Zehirlenme. 4 - H302; Göz Hasarı 2 - H319; Cilt Hasarı 2 H315

2.2 Label Elements

2.2.1. Labeling

Product ID

The component that determines the hazard for the label

Ferrous(iron) sulphate heptahydrate

Hazard signs



GHS07

word of warning

CAUTION

Hazard Statements

H302 Harmful if swallowed.

H319 Causes serious eye damage.

H315 Causes serious skin damage.

Precautionary Statements

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P501 Dispose of contents/container. Dispose of waste and residues in accordance with local government requirements.

Additional Hazard Information Statements

P264 Wash and clean thoroughly after exposure/use.

P270 Do not eat, drink or smoke while using this product.

P301 + P312 IF SWALLOWED: Consult a hospital or doctor/physician if you feel unwell.

P330 Rinse mouth with clean water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. remove contact lenses, if present and easy to remove. Continue rinsing.

P337 + P313 If eye irritation persists: seek medical advice.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P321 Special treatment, treatment

P333 + P313 If skin irritation or rash occurs: Get medical advice

P362 Remove and wash contaminated clothing.

Savfa No: 3/13

MATERIAL SAFETY DATA SHEET

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FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 1 Preparation Arrangement:

2.3 Other Damages

The product is acidic when dissolved in water.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

The product consists of chemicals in the compound.

3.2 Mixtures

Dangerous substances it contains:

SUBSTANCE OR COMPOUND	Hazard Definition	EINECS¹ NO- CAS² NO.	Weight %(V)
Ferrous(iron) sulphate heptahydrate	Akut Tok. 4 ;H302 Göz hsr 1; H319 cilt hsr 1;H315	231-753-5 7720-78-7	100

3.2.1 Notes: Unspecified

3.2.2 M-Factor: Unspecified

Specific Concentration Limits: Unspecified

3.2.3 Additional warnings:

All of the related damage definition sentences are given in the 16th section.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

4.1.1 General

If you think you are in danger or are observing symptoms, seek medical advice.

4.1.2 Respiratory:

If possible, stay calm in a clean or well-ventilated environment, away from the hazardous area, and seek medical assistance.

4.1.3 Skin Contact:

Remove contact clothing and wash all contacted areas with plenty of soap and water. If irritation occurs, seek medical assistance.

4.1.4 Swallowing:

If swallowed, do not induce vomiting and seek medical assistance as soon as possible.

4.1.5 Eye Contact:

Immediately wash with plenty of water for 15 minutes, seek medical support.

4.2 Significant symptoms and effects, both acute and delayed

In case of inhalation Shortness of breath/frequency

Skin Contact Skin/skin irritation Eye Contact eye irritation (Digestive) In case Stomache ache of ingestion

Other (Long Term No information.

Effects)

4.3 Early Signs of Need for Medical Intervention and Special Treatment

MATERIAL SAFETY DATA SHEET

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FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 1 Preparation Arrangement:

As noted above, if irritation, shortness of breath/frequency persists, or if swallowed, seek medical attention immediately.

5.1 Fire Extinguishers:		
Cuitabla Futin aniabina Madia	The product is not flammable. Suitable for other objects around	
Suitable Extinguishing Media	use fire extinguisher (micronized water, CO2, Foam).	
Unsuitable Extinguisher	All extinguishing media are suitable, if suitable for surrounding objects.	
environments		
Other Remarks	No information	
5.2 Special Hazards Caused by the Mixture:		
Damages Related to Combustion	unusual fire hazard	
Explosion-Related Damages	unusual explosion hazard	
	When heated above 400°C, the product contains iron oxide and sulfur	
Hazards Related to Reactivity	dioxide.emits toxic fumes. The material is acidic when dissolved in water	

5.3 Advice for Fire Fighters:

5. FIRE FIGHTING MEASURES

Fire Fighting Instructions Follow all normal fire fighting procedures.

No information

Protective Equipment for Fire Fighting Personnel

Wear appropriate protective equipment and be conscious, if possible should act with breathing devices/apparatuses that completely cover the face.

and can form hydrogen gas when it reacts with magnesium.

Other Remarks No information

5.4 Other informations

No information

6. ACCIDENTAL RELEASE MEASURES

Other Remarks

6.1 Pe	ersonal Precautions, Protective Equipment and Emergency Procedures:
	<i>Use exposure control and personal protective measures detailed in section 8.</i>
<i>(</i> 1 1	Ear Non Emanger on Dong own of

6.1.1 For Non-Emergency Personnel

Protective Equipment Use protective gloves, goggles and suitable protective clothing.

Emergency Procedures Provide adequate ventilation.

Other Remarks No information

6.1.2 For Persons Responding in an Emergency

Protective Equipment Do not attempt to intervene without appropriate protective equipment

Emergency Procedures For more information see

section 8: "Exposure controls/personal protection".

Other Remarks No information

Savfa No: 5/13

MATERIAL SAFETY DATA SHEET

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FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 1 Preparation Arrangement:

6.2 Environmental Precautions:

Prevent entry into sewers and other water sources.

6.3 Methods and Materials for Conservation and Cleaning:

Avoid dust formation. Collect the dust using a special dust vacuum cleaner with a particle filter or sweep it carefully into the closed container. Cover the product with sand or earth and carefully clean all products. Put it in another clean and dry container, seal it and remove it from the field. Do not clean the contaminated area with water.

6.3.1 Spill Control Recommendations

No information

6.3.2 Spill Cleanup Advice

No information

6. 4 Other Information:

No information

6.5 References to Other Sections:

Get information about safe use from chapter 7.

Get information about personal protective equipment from chapter 8.

Get information about liquidation from chapter 13.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

No special precautions are required when used correctly

7.1.1 General Handling Recommendations:

7.1.1.1 Warnings for Safe Handling

Avoid dust formation. Do not breathe dust. Keep the product in a well-ventilated area or make sure to use adequate respiratory protection (dust mask). Avoid contact with skin and eyes with work clothes, gloves and safety glasses. Do not eat, smoke or drink liquids during use. Be sure to close the packaging well after use. Precautions for Safe Use/Transport: Prevent unauthorized access. Avoid contact with skin and eyes. Do not dry the product. Hygiene Precautions: Do not eat, drink or smoke while using this product. Before removing contaminated/contacted clothing, wash immediately with plenty of water if it comes into contact with your skin.

7.1.1.2 Warnings Regarding Incompatibilities of Mixtures

No information

7.1.1.3 Environmental Warnings

No information

7.1.1.4 Additional Warnings

No information

7.1.2 General Occupational Hygiene Recommendations:

Always wash your hands after handling the product

7.2 Conditions for Safe Storage, Including Incompatibilities:

	•	_		•
Technical Measures		1	n a well-ven	tilated place with the container tightly closed.
		k	eep it.	
Storage conditions		5	tore in its o	riginal container.

Sayfa No: 6/13

MATERIAL SAFETY DATA SHEET

Prepared in accordance with the "Regulation on Safety Data Sheets on Hazardous Substances and Mixtures (Official Gazette dated 13.12.2014 and numbered 29204) and (EU) No 1272/2008

FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 1		Preparation Arrangement:
Common Storage Terms	No information	· · · · · · · · · · · · · · · · · · ·
Maximum Storage Time	No information	
Incompatible Substances	No information	
7.3 Specific End Uses:		
No information		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

In the working environment, exposure limit during working hours (OEL TWA 8 hours)

Please review existing laws, regulations and laws for different countries. In case the standards are not met, make sure that the employees use protective clothing and face masks.

About FeSO4 in REACH DNEL, PNEC, and ERV(in CSR) regulations: Occupational Health/Safety (Iron Sulphate)

Long-term systemic skin/skin effects: DNEL = 137 mg/m3 Other effects not observed, not mentioned. Environmental Effects (Iron

Sulphate):

Suda : $PNEC = 7.8 \mu g/l$ (tatlı su)

 $PNEC = 5.2 \,\mu g/l \,(tuzlu \, su)$

 $PNEC = 87 \, mg/kg \, dw \, (tatli \, su)$

PNEC = 676 mg/kg dw (tuzlu su)

8.2 Exposure controls

Appropriate Engineering Controls: Natural ventilation should be adequate for normal conditions of use. Local exhaust ventilation (LEV) is recommended.

Worker Equipment: Gloves, goggles, dust mask and suitable protective clothing. Hand Protection: Use gloves.

Eye Protection: Use goggles or a mask.

Skin and Skin Protection: Use appropriate clothing.

Respiratory: Unless local exhaust ventilation (LEV) is used, a dust mask with a suitable filter is required.

Environmental: Do not allow the product to be discharged/released into the environment in an uncontrolled manner.

MATERIAL SAFETY DATA SHEET

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FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 1 Preparation Arrangement:

9.1 Information on Basic Physical and Chemical Properties			
Appearance	Solid, Blue Crystals or Crystalline Powder		
Smell	no		
olfactory threshold	Not applicable		
pH (20° C, direct)	4.0		
Suitable room temperature (°C)	No information		
Melting Point (°C)	110 °C		
Freezing Point/range(°C)	Not applicable		
Boiling Point (°C)	110°C		
Ignition temperature	Not applicable		
Flash Point(Closed Cup) (°C)	Not applicable		
flammability	Not applicable		
explosive limits	Not applicable		
Density g/ml	1,200-1,230 kg/m³		
Viscosity(cp)	Not applicable		
specific weight	No information		
Partition Coefficient: n-octanol/water (log Pow)	No information		
Relative Density g/cm ³	2,286		
Evaporation Pressure mm/ Hg @ 25°C	7.3mm		
Explosive Properties	No information		
Specific Gravity gr/cm³	No information		
Descriptions	No information		
9.2 Other informations			
Resolution (g/L)	22g / 100ml		
Solubility in Ester, Ketone and Hydrocarbons	No information		
UOB contents	No information		
Note: The above properties have been determined according to the m Applied in the Determination of the Physico-Chemical, Toxicological comparable method.	ethods stipulated in Annex-1 Part A of the "Regulation on the Test Methods to b l and Ecotoxicological Properties of Substances and Mixtures" or another		

The product is hygroscopic and reacts with acid

10 STABILITY AND REACTIVITY

10.1	Reaction:
	The product is stable under normal transport and storage conditions.
10.2	Chemical Stability:
	The product is stable under normal transport and storage conditions, but is hygroscopic.
10.3	Possibility of Harmful Reaction:
10 4	Conditions to Avoid: (Under conditions to be avoided such as temperature pressure light shock

10.4 Conditions to Avoid: (Under conditions to be avoided, such as temperature, pressure, light, shock, etc.)

Avoid exposure to high temperatures and weather, climatic changes,

Keep it dry to avoid Avoid accumulation of dust and debris so that it does not enter drains or other waterways

10.5 Substances to be avoided: (Conditions related to water, air, acids, bases, oxidizers or any other special substance that can cause dangerous reaction):

Sayfa No: 8/13

MATERIAL SAFETY DATA SHEET

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FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 1	Preparation Arrangement:
ferrous oxides. Sulfur oxides	
10.6 Harmful Decomposition Products:	
Hazardous Decomposition Substances:	
Possibility to decompose to unstable products	No information
The need for stabilizers and the need for stabilizers availability	No information
Possibility of harmful exothermic reaction	No information
Change in physical appearance, if any importance for security	No information
In contact with water, any a harmful decomposition product	No information
Hazardous decomposition products	No information
Hazardous polymerization products	No information

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxic Effects:

No information

11.1.1 Acute Toxicity

Ingestion or prolonged inhalation may cause serious damage to health.

11.1.2 Skin Corrosion/Irritation

Skin contact may cause irritation. Prolonged contact may cause dermatitis.

11.1.3 Serious Eye Damage/Irritation

It can irritate and cause corneal damage.

11.1.4 Respiratory Or Skin Sensitization

Could not be classified

11.1.5 Germ Cell Mutagenicity

Could not be classified

11.1.6 carcinogenicity

It is considered not

11.1.7 Reproductive Toxicity

Could not be classified

11.1.8 Specific Target Organ Toxicity-Single Exposure (BHOT-Tek)

Could not be classified

11.1.9 Specific Target Organ Toxicity-Repeated Exposure (BHOT-Tekrarlı)

Prolonged exposure (over years) can cause chronic effects as above and damage the kidneys and liver.

11.1.10 Aspiration Damage

Could not be classified

11.2 Information on Possible Routes of Exposure

In case of inhalation	No information
Skin Contact	No information
Eye Contact	No information
(Digestive) In case of ingestion	No information

Sayfa No: 9/13

MATERIAL SAFETY DATA SHEET

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FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number o	of Edits: 1	Preparation Arrangement:		
Target C	Organs	No information		
Medical Symptoms		No information		
Medical	Warnings	No information		
11.3	Information on Physical,	Chemical and Toxicological Properties		
	No information			
11.4	Chronic Effects with Short	rt and Long-Term Exposure as well as Delayed or Immediate		
Eff	fects	•		
	No information			
11.5	Interactive Effects			
	No information			
11.6	Absence of Private Data			
	No information			
11.7	Mixture and Substance Comparison Information			
	No information			
11.8	Other informations			
	No information			
11.9	Additional Toxicological	warnings:		
	No information			

12. ECOLOGICAL INFORMATION

12.1	Toxicity:					
	Very toxic to aquatic life, LC 50/96 hour values for fish >1 mg/1					
12.1.1	Akude Toksisite:					
	No information					
12.2	Persistence and Degradability:					
	Persistence Potential in Relevant Environmental Environment	When released into soil or water, the material is not expected to decompose harmlessly into the environment.				
Biode	gradation in Relevant Environmental Environment potential	No information				
	By Other Processes Like Oxidation Or Hydrolysis Degradability Potential	No information				
	Related to Decomposition Half-Life	No information				
	Effect on Waste Water Treatment Plants	No information				
12.3	12.3 Bioaccumulation Potential:					
	Accumulation of the product in the biological environment (biota)potential	Bioaccumulation along the food chain it could be				
	Potential for product to pass through food	No information				
	Log Kow or BCF value	No information				

Sayfa No: 10/13

MATERIAL SAFETY DATA SHEET

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FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number	ber of Edits: 1 Preparation Arrangement:					
12.4	Mobility in Soil:					
	In the soil, the material will leach in	to the ground	water.			
Surface	etension	No information				
Juice T	Juice Threat Class		No information			
Effect of	on Drinking Water	No information				
Enviror	Environmental known or estimated		No information			
12.5	Results of PBT and vPvB assessmen	t:				
	Not applicable					
12.6	Other Adverse Effects:					
	Ozone Depletion (Reduction) potential		No information			
	Photochemical Ozone Generation Po	tential	No information			
	Endocrine Disruptive Potential		No information			
	Global Heating (Greenhouse Effect)	Potential	No information			
	Other Adverse Effects on the Environment and/or Environmental Behavior (exposure)		No information			
12.7	2.7 Additional info:					
	Do not allow it to be released into the environment. See sections 6, 7, 13, 14 and 15 for information on accidental release measures, transportation and waste disposal.					
13. D	ISPOSAL INFORMATION					
13.1	Waste Treatment Methods:					
	Consult local authorities for disposal recommendations.					
13.2	Safe Disposal:					
	The product must be disposed of in accordance with official regulations.					
13.3	European Waste Catalogue and Haz	**				
	No information					

No information

13.4

13.5

13.6

info::

Additional

No information

Uncleaned Packages:

Recommended Cleaning Agent:

No information

Sayfa No: 11/13

MATERIAL SAFETY DATA SHEET

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FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 1 Preparation Arrangement:

v			<u> </u>				
14. TRANSPORT INFORMATION							
	ADR ³ /RID ⁴	ADNR ⁵	$IMDG^6$	ICAO ⁷ /IATA ⁸			
FORM OF TRANSPORTATION	HIGHWAY	RIVER	SEAWAY	AIRLINE			
		CHANNEL					
14.1UN NUMBER	There is no damage under ADR						
SYMBOL	There is no damage under ADR						
14.2. SUITABLE FLOUR	There is no damage under ADR						
TRANSPORTATION NAME							
DEFINITION OF SHIPPING	-	-	-	-			
DOCUMENTS							
14.3. TRANSPORTATION	_	_	_	_			
HARMFUL CLASS							
14.4. PACKAGING GROUP	-	-	-	-			
CLASSIFICATION CODE	-	-	-	-			
LABELING NO	-	-	-	-			
EmS	-	-	-	-			
14.6. SPECIAL	No information						
PRECAUTIONS FOR THE	No information						
USER							
14.7. MARPOL 73/78 ek II ve IBC	Not applicable						
bulk transportation by code							

15. REGULATORY INFORMATION

15.1 Specific safety, health and environmental legislation for the substance or mixture:

Product; "Classification, Labeling and Packaging of Substances and Mixtures

- It has been classified and labeled according to the procedures and principles stipulated in the "Regulation on" and "EU legislation".
- Review the following regulations for legislation or other national measures that may be relevant to implement the provisions of this safety data sheet.
- Regulation on Safety Data Sheets Regarding Harmful Substances and Mixtures
 - · Regulation on Classification, Labeling and Packaging of Substances and Mixtures
- Regulation on Restrictions on Production, Placement on the Market and Use of Certain Hazardous Substances, Preparations and Goods
- Occupational Health and Safety Law
- Regulation on Health and Safety Precautions in Working with Carcinogenic and Mutagen Substances
- Waste Management Regulation
- Regulation on Preventing Major Industrial Accidents and Reducing Their Effects

Savfa No: 12/13

MATERIAL SAFETY DATA SHEET

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FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 1 Preparation Arrangement:

<i>16.</i>	OTHER	INFO	PKMAT	IONS

16.1 Legal Instruments:

This document, in accordance with (EC) No 1907/2006 (REACH) and ISO 11014-1, on "Safety Data Sheets for Hazardous Substances and Mixtures" dated 13 December 2014 and numbered 29204 It has been prepared and approved by accredited expert personnel, prepared within the framework of the "Regulation" and documented as stipulated by the regulation.

16.2 Prepared/Edited/Published Safety Data Sheet:

Expert Accreditation No.: TÜV/ 11.09.01

16.3 Reissue Date:

14.11.2022

16.4 Accreditation Holder:

Ayşe Fulya Keçelioğlu

16.5 Edits/Comments:

It has been arranged according to the regulation numbered 13 December 2014 and 29204.

16.6 Other Topics:

- Please contact our sales department for our training suggestions for the safe use of the product.
- Please contact our sales department for recommended restrictions on the use of the product and non-legal recommendations.
- In order to ensure the protection of human health and the environment, it is recommended to receive appropriate training for workers to read and use the safety data sheets and label information in a clear way against the exposure of the product and in order to create a general safety culture.
- Key sources of information used in editing this safety data sheet;
- · \Box Safety Data Sheet(s) prepared by the manufacturer of the product
- · 🗆 "Regulation on Safety Data Sheets on Hazardous Substances and Mixtures" and its annexes,
- □ "Regulation on Classification, Labeling and Packaging of Substances and Mixtures" and its annexes
- ☐ "Regulation on Health and Safety Precautions in Working with Carcinogenic and Mutagen Substances" and its annexes,
- $\cdot \quad \Box$ Other relevant local regulations
- · □ UN ADR, IMDG, IATA lists, ECHA and relevant EU directives, Other helpful resources.

16.7 Additional info:

- The information provided in this Safety Data Sheet has been prepared based on the best available experience, knowledge and beliefs at the time of preparation.
- Unless stated in the document, this information is valid only for the specified mixture and may not be valid if this mixture is used with other substances or used in any other process.
- · Observe the information in the Safety Data Sheet for use.
- This information is based on our current knowledge.
- This Safety Data Sheet describes the product according to the appropriate safety regulations, but does not guarantee the assurance of product properties.

Sayfa No: 13/13

MATERIAL SAFETY DATA SHEET

Prepared in accordance with the "Regulation on Safety Data Sheets on Hazardous Substances and Mixtures (Official Gazette dated 13.12.2014 and numbered 29204) and (EU) No 1272/2008

FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 1 Preparation Arrangement:

• <u>It does not constitute any warranty and product specifications do not establish a legally valid contractual relationship.</u>

¹ EINECS: European Inventory of Chemicals

² CAS: Service registration number of chemicals

³ ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

⁴RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

⁵ ADNR: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways

⁶ IMDG: International Maritime Code for Dangerous Goods

⁷ICAO: International Civil Aviation Organization

⁸ IATA: International Air Transport Association