Sayfa No: 1/13 Date: 01.02.2025

# 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: 2 Preparation Arrangement:

1.1 Mixture ID		
Trade Name	FERROUS(IRON) SULPHATE HEPTAHYDRATE	
EG/EINECS no	231-753-5	
CAS no	7720-78-7	
Formule	FeSO4.7H2O	
1.2 Identified and Suggest	ted 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	

BORTERA

Date: 01.02.2025

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## FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 2 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





## 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.* 

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**BORTERA** 

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FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 2 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:

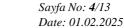
*Immediately wash with plenty of water for 15 minutes, seek medical support.* 

### 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 of ingestion	Stomache ache	
Other (Long Term	No information.	
Effects)		

## 4.3 Early Signs of Need for Medical Intervention and Special Treatment

Sayfa No: **3**/13 Date: 01.02.2025





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## FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 2 Preparation Arrangement:

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

# 5. FIRE FIGHTING MEASURES

J. FIRE FIGHTING MEASURES		
5.1 Fire Extinguishers:		
Suitable Extinguishing Media	The product is not flammable. Suitable for other objects around use fire extinguisher (micronized water, CO2, Foam).	
Unsuitable Extinguisher environments	All extinguishing media are suitable, if suitable for surrounding objects.	
Other Remarks	No information	
5.2 Special Hazards Caused by th	ne Mixture:	
Damages Related to Combustion	unusual fire hazard	
Explosion-Related Damages	unusual explosion hazard	
Hazards Related to Reactivity	When heated above 400°C, the product contains iron oxide and sulfur dioxide.emits toxic fumes. The material is acidic when dissolved in water and can form hydrogen gas when it reacts with magnesium.	
Other Remarks	No information	
5.3 Advice for Fire Fighters:		
Fire Fighting Instructions	Follow all normal fire fighting procedures.	
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.	
Other Remarks	No information	
5.4 Other informations		
No information		

### 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, P	rotective Equipment and Emergency Procedures:	
Use exposure control	l and personal protective measures detailed in section 8.	
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	

**BORTERA** 

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: 2 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		In a well-ventilated place with the container tightly closed.
		keep it.
Storage conditions		Store in its original container.

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# **BORTERA**

## MATERIAL SAFETY DATA SHEET

Sayfa No: **6**/13 Date: 01.02.2025

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: 2	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 :  $PNEC = 7.8 \mu g/l \text{ (tatli su)}$ 

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

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.

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## 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: 2 Preparation Arrangement:

9. PHYSICAL AND CHEMICAL PROPERTIES  9.1 Information on Basic Physical and Chemical Properties  Appearance Solid, greenish-blue crystals  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/cm³ 2,286		
Appearance Solid, greenish-blue crystals Smell no olfactory threshold PH (20° C, direct) Suitable room temperature (°C) Melting Point (°C) Freezing Point/range(°C) Boiling Point (°C) Ignition temperature Not applicable Flash Point (Closed Cup) (°C) flammability Not applicable specific weight Not applicable		
Smell  olfactory threshold  pH (20° C, direct)  Suitable room temperature (°C)  Melting Point (°C)  Freezing Point/range(°C)  Boiling Point (°C)  Ino°C  Freezing Point/range(°C)  Ino°C  Ino°C		
olfactory threshold pH (20° C, direct) Suitable room temperature (°C) No information Melting Point (°C) Freezing Point/range(°C) Boiling Point (°C) Il10°C Ignition temperature Not applicable Flash Point (Closed Cup) (°C) Not applicable flammability Not applicable explosive limits Not applicable Density g/ml Viscosity(cp) Not applicable specific weight No information Partition Coefficient: n-octanol/water (log Pow) Relative Density g/cm³ No information Relative Density g/cm³ So information Relative Density g/cm³ A.0  No information No information Relative Density g/cm³ A.0  No information No information Relative Density g/cm³ A.0  No information Relative Density g/cm³ A.0  No information No information Relative Density g/cm³ A.0  No information No information Relative Density g/cm³ A.0  No information Relative Density g/cm³ A.0  No information		
pH (20° C, direct)  Suitable room temperature (°C)  Mo information  Melting Point (°C)  Freezing Point/range(°C)  Boiling Point (°C)  Ignition temperature  Not applicable  Flash Point( Closed Cup) (°C)  flammability  Not applicable  explosive limits  Not applicable  Density g/ml  Viscosity(cp)  Not applicable		
Suitable room temperature (°C)  Melting Point (°C)  Freezing Point/range(°C)  Boiling Point (°C)  Ignition temperature  Not applicable  Flash Point (Closed Cup) (°C)  Not applicable  flammability  Not applicable  explosive limits  Not applicable  Density g/ml  Viscosity(cp)  Specific weight  Partition Coefficient: n-octanol/water (log Pow)  Relative Density g/cm³  No information  No information  No information  Relative Density g/cm³  No information  2,286		
Melting Point (°C)  Freezing Point/range(°C)  Boiling Point (°C)  Ignition temperature  Flash Point (Closed Cup) (°C)  Not applicable  Flash Point (Closed Cup) (°C)  Freezing Point/range(°C)  Not applicable  Flash Point (Closed Cup) (°C)  Not applicable  Replacible  Not applicable  1,200-1,230 kg/m³  Viscosity(cp)  Not applicable  Specific weight  No information  Partition Coefficient: n-octanol/water (log Pow)  Relative Density g/cm³  2,286		
Freezing Point/range(°C)  Boiling Point (°C)  Ignition temperature  Flash Point( Closed Cup) (°C)  flammability  Not applicable  explosive limits  Not applicable  Density g/ml  Viscosity(cp)  Not applicable  Not applicable  1,200-1,230 kg/m³  Viscosity(cp)  Not applicable  Not applicable  Not applicable  Not applicable  Not applicable  1,200-1,230 kg/m³  Not applicable  No information  Partition Coefficient: n-octanol/water (log Pow)  Relative Density g/cm³  2,286		
Boiling Point (°C)  Ignition temperature  Flash Point( Closed Cup) (°C)  Rot applicable  Not applicable  Not applicable  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)  Relative Density g/cm³  2,286		
Ignition temperature  Flash Point( Closed Cup) (°C)  flammability  explosive limits  Not applicable  Density g/ml  Viscosity(cp)  Not applicable  Not applicable  1,200-1,230 kg/m³  Not applicable		
Flash Point( Closed Cup) (°C)  Rot applicable  Not applicable  explosive limits  Not applicable  Density g/ml  1,200-1,230 kg/m³  Viscosity(cp)  Not applicable  2,286		
flammability 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) Relative Density g/cm³ Not applicable No information 2,286		
explosive limits  Density g/ml  1,200-1,230 kg/m³  Viscosity(cp)  Not applicable  specific weight  No information  Partition Coefficient: n-octanol/water (log Pow)  Relative Density g/cm³  Not applicable  No information  2,286		
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/cm³ 2,286		
Viscosity(cp)  Specific weight  Partition Coefficient: n-octanol/water (log Pow)  Relative Density g/cm³  Not applicable  No information  2,286		
specific weight Partition Coefficient: n-octanol/water (log Pow) No information Relative Density g/cm³ 2,286		
Partition Coefficient: n-octanol/water (log Pow)  Relative Density g/cm³  No information  2,286		
Relative Density g/cm³ 2,286		
Evaporation Pressure mm/ Hg @ 25°C 7.3mm		
Explosive Properties No information		
Specific Gravity gr/cm <sup>3</sup> No information		
Descriptions No information		
9.2 Other informations		
<i>Resolution (g/L)</i> 22g / 100ml		
Solubility in Ester, Ketone and Hydrocarbons No information		
UOB contents No information		
Note: The above properties have been determined according to the methods stipulated in Annex-1 Part A of the "Regulation on the Test Meth	ds to be	
Applied in the Determination of the Physico-Chemical, Toxicological and Ecotoxicological Properties of Substances and Mixtures'' or another comparable method.		

The product is hygroscopic and reacts with acid

# 10 STABILITY AND REACTIVITY

Reaction:

10.1

10.1	Trown on the state of the state
	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 etc.)	Conditions to Avoid: (Under conditions to be avoided, such as temperature, pressure, light, shock,
	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

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

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## FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 2	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

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## MATERIAL SAFETY DATA SHEET



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## FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 2 Preparation Arrangement: Target 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 and Long-Term Exposure as well as Delayed or Immediate **Effects** 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	egradation 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		
<i>12.3</i>	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		

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# FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number	of Edits: 2	Preparation Arrangement:			
12.4	Mobility in Soil:				
	In the soil, the material will leach int	to the ground	water.		
Surface tension		No information			
Juice Threat Class		No information			
Effect o	Effect on Drinking Water		No information		
Environmental known or estimated		No information			
12.5	Results of PBT and vPvB assessment:				
	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	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.				
12 D	ICDOCAL INCODIATION				
713. DI	ISPOSAL INFORMATION				

13.1	Waste Treatment Methods:
13.1	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 Hazardous Waste List Number:
	No information
13.4	Uncleaned Packages:
	No information
13.5	Recommended Cleaning Agent:
	No information
13.6	Additional info::
Main	nformation

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### FERROUS(IRON) SULPHATE HEPTAHYDRATE

Number of Edits: 2 Preparation Arrangement:

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

### 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

Sayfa No: **12**/13 Date: 01.02.2025

## 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: 2 Preparation Arrangement: 16. OTHER INFORMATIONS 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;  $\square$  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, ☐ 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.

# **BORTERA**

## MATERIAL SAFETY DATA SHEET

Sayfa No: **13**/13 Date: 01.02.2025

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: 2 Preparation Arrangement:

It does not constitute any warranty and product specifications do not establish a legally valid contractual relationship.

- <sup>1</sup> EINECS: European Inventory of Chemicals
- <sup>2</sup> CAS: Service registration number of chemicals
- <sup>3</sup> ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- <sup>4</sup> RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
- <sup>5</sup> ADNR: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
- <sup>6</sup> IMDG: International Maritime Code for Dangerous Goods
- <sup>7</sup> ICAO: International Civil Aviation Organization
- <sup>8</sup> IATA: International Air Transport Association