

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 18.08.2022 Version 2



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

### 1.1 Product identifier

Catalog No. TK.201775.00000  
Product Name Iron (III) Nitrate Nonahydrate  
Cas no 7782-61-8

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

#### 1.2.1. Relevant identified uses

Use as a laboratory reagent.

#### 1.2.2. Uses advised against

No information available.

### 1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.  
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA  
Telephone 0224 243 21 71  
E-mail erhan@tekkim.com.tr  
Company Representative Erhan DİLER

**1.4 Emergency Telephone Number +90 506 990 36 86**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Skin Corrosion, Subcategory 1B  
Serious eye damage, Category 1

For the full text of the H and EUH statements referred to in this section, see section 16.

### 2.2 Label elements

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

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H314 Causes severe skin burns and eye damage.

Precautionary Statements (SEA)

Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

Intervention

P301+P330+P331 IF SWALLOWED: Rinse mouth. DO NOT try to vomit.

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/shower.

P304+P340+P310 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing. Immediately call the NATIONAL POISON ADVICE CENTER or doctor/physician.

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

## SECTION 3: Composition/information on ingredients



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

## 3.1 Maddeler

EC No	233-899-5
Molar mass	403.95 g/mol
Cas No	7782-61-8
Concentration	(<= 100 % )

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Following inhalation	Remove casualty to fresh air and keep warm and at rest..
Following skin contact	Wash with plenty of water. Take off contaminated clothing.
Following eye contact	In case of contact with eyes, rinse eyelids with water for 10-15 minutes. See a doctor immediately.
Following ingestion	Give up to two glasses of water. Get medical help immediately. Do not try to neutralize. Avoid vomiting (risk of perforation!).

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

The most important known symptoms and effects are described in the labelling

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

No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

### 5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx). Iron oxides. It is not flammable. Fire may cause evolution of: nitrous gases, nitrogen oxides. All-round fire can release dangerous vapours.

### 5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

### 5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area. Avoid generation of dust..

### 6.4 Reference to other sections

Disposal: see section 13.

### 6.5 Additional information



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Clear spills immediately.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

*Advices on safe handling*

Observe label precautions.

*Advices on general occupational hygiene*

Change contaminated clothing. Wash hands after working with substance.

### 7.2 Conditions for safe storage, including any incompatibilities

*Storage conditions*

Protect from light. Keep container tightly closed in dry and well-ventilated places.

### 7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

#### Personal protection equipment

*Eye/face protection*

Fully fitting safety glasses

*Hand protection*

Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standard EN374.

*Other skin protection*

Acid-resistant protective clothing

*Respiratory protection*

Required when dusts occur.


Recommended filter type : P 2 Filter (according to DIN 3181) for solid and liquid particles of harmful elements.

## SECTION 9: Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties



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Physical state	Solid
Colour	Light blue
Odour	No information.
Odour threshold	No information.
pH value	1,0 - 2,0 100 g/l 25 °C
Melting point/freezing point	47 °C
Freezing point	No information.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	No information.
Upper/lower flammability or explosive limits	No information.
Vapour pressure	No information.
Vapour density	No information.
Density	No information.
Relative density	No information.
Water solubility (g/l)	825 g/l 25 °C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	> 125 °C
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	none

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

Section 10.3 to see.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

Risk of explosion with dimethyl sulfoxide, reducing compounds.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

No information available.

### 10.6 Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects



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## Acute oral toxicity

LD50 Oral - Rat - male and female - > 2.000 mg/kg  
(OECD Testing Guide 401)

Symptoms : Irritation of mucous membranes in the mouth, throat, esophagus and gastrointestinal tract, nausea, vomiting

## Acute dermal toxicity

LD50 Dermal - Rat - male and female - > 2.000 mg/kg  
(OECD Testing Guide 402)

## Skin irritation

Causes skin burns.  
(ECHA)

## Eye irritation

Causes serious eye irritation.  
(ECHA)

## 11.2 Additional information

Absorption into the body causes the formation of methemoglobin, which, if it reaches sufficient concentration, causes cyanosis. It may take 2 to 4 hours or longer for symptoms to appear. Nausea, dizziness, headache, weakness, weakness, drowsiness, confusion, cyanosis, coma.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates  
semi-static test LC50 - Daphnia magna (Water flea) - 323 mg/l - 48 h  
(OECD Testing Guide 202)

### Toxicity to algae (algae)

static test ErC50 - Pseudokirchneriella subcapitata - 130 mg/l - 72 h  
(OECD Testing Guide 201)

### 12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

### 12.6 Other adverse effects

Discharge into environment must be avoided.

## SECTION 13: Disposal considerations

### Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

## SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
<b>14.1 UN number</b>				
UN 1466	UN 1466	UN 1466	UN 1466	UN 1466
<b>14.2 UN proper shipping name</b>				
CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Ferric nitrate nonahydrate)	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Ferric nitrate nonahydrate)	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Ferric nitrate nonahydrate)	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Ferric nitrate nonahydrate)	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Ferric nitrate nonahydrate)



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## 14.3 Transport hazard class(es)

5.1 5.1 5.1 5.1 5.1



## 14.4 Packing group

III III III III III

## 14.5 Environmental hazards

NO NO NO NO NO

No information available. No information available. No information available. No information available. No information available.

## 14.6 Special Precautions for User:

No information available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

## SECTION 16: Other informations

### Full text of H statements

H314 Causes severe skin burns and eye damage.

## Person Who Prepared the Safety Data Sheet:

Name: Erhan DİLER  
Certificate Number and Date: 11.29.03 & 11 Şubat 2020  
Communication information: 05069903686



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