

Safety Data Sheet

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

Revision Date: 11.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.200690.00000
Product Name Iron (III) Chloride Anhydrous
Cas no 7705-08-0

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

1.2.1. Relevant identified uses

Industrial use.

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)

Corrosive to metals, Category 1
Acute toxicity, Category 4, Oral
Skin irritation, Category 2
Serious eye damage, Category 1
Skin sensitivity, 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)

H290 May corrode metals.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 Causes an allergic skin reaction.
H318 Causes serious eye damage.

Precautionary Statements (SEA)



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi
Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY
+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66
Factory: istoc 33.ada No: 47-49-51-53
+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 11.08.2022

Version 2



Prevention

P234 Store only in original container.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

Intervention

P301+P312 IF SWALLOWED: Call 114 POISON CENTER or doctor/physician if you feel unwell.

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

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

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

3.1 Maddeler

EC No	231-729-4
Molar mass	162.20 g/mol
Cas No	7705-08-0
Concentration	(>= 80 % - < 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	Provide fresh air..
Following skin contact	Wash with plenty of water. Take off contaminated clothing.
Following eye contact	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
Following ingestion	Give up to two glasses of water. Get medical help immediately.

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

Water. Foam.

5.2 Special hazards arising from the substance or mixture

May form free in case of fire: Hydrogen chloride. It is not flammable. All-round fire can release dangerous vapours. It should not come into contact with water. Releases in contact with water : Hydrochloric acid.

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



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi

Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 11.08.2022 Version 2



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.

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

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

Keep container tightly closed in dry and well-ventilated places. Metal containers should not be used.

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



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi
Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 11.08.2022

Version 2



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

Physical state	Solid
Colour	Dark green
Odour	Pain
Odour threshold	No information.
pH value	1.0 200 g/l 20 °C
Melting point/freezing point	306 °C
Freezing point	No information.
Initial boiling point and boiling range	No information.
Flash point	It doesn't shine.
Evaporation rate	No information.
Flammability (solid, gas)	The product is not flammable.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	1 hPa 20 °C
Vapour density	No information.
Density	2.89 g/cm3 20 °C
Relative density	No information.
Water solubility (g/l)	920 g/l 20°C
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	306 °C

Viscosity

Kinematic viscosity	Not applicable.
Dynamic viscosity	Not applicable.
Explosive properties	Not classified as explosive.
Oxidising properties	It has oxidation potential.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability

Sublimable, sensitive to moisture.

10.3 Possibility of hazardous reactions

Risk of explosion with alkali metals and ethylene oxide.

10.4 Conditions to avoid

Strong heating (decomposition). Do not expose to moisture.

10.5 Incompatible materials

Copper. Light metals.

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi
Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 11.08.2022

Version 2



Acute oral toxicity

LD50 Rat: 316 mg/kg

(RTECS)

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

Acute inhalation toxicity

Symptoms: Possible damages:, mucosal irritations

Acute dermal toxicity

LD50 Dermal Rat: > 2.000 mg/kg

(External product safety sheet)

Skin irritation

Rabbit

Result: irritating

(IUCLID)

Causes skin irritation.

Eye irritation

Rabbit

Result: Severe irritations

OECD Test Guideline 405

Causes serious eye damage.

Sensitivity

Causes allergic skin reactions.

Repeated dose toxicity

Rat

male

Oral

98g

Diary

NOAEL: 277 mg/kg

OECD Directive 408

Subchronic toxicity

11.2 Additional information

Nausea and vomiting after swallowing. When large amounts are absorbed, cardiovascular discomfort occurs. Toxic effect on the liver and kidneys.


Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an  group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi

Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 11.08.2022

Version 2



Toxicity to fish

LC50 *Lepomis macrochirus* (Bluegill sunfish): 20.3 mg/l; 96 h
(External product safety sheet)

Toxicity to daphnia and other aquatic invertebrates

Immobilization EC50 *Daphnia magna* (Water flea): 9.6 mg/l; 48 hours
OECD Test Guideline 202

Toxicity to algae (algae)

ErC50 *Pseudokirchneriella subcapitata* (green algae): 6.9 mg/l; 72 hours
OECD Test Guideline 201

NOEC *Pseudokirchneriella subcapitata* (green algae): 2.4 mg/l; 72 hours
OECD Test Guideline 201

Toxicity to fish (Chronic toxicity)

NOEC *Pimephales promelas* (Carp juvenile): 0.33 mg/l; 33g
(External product safety sheet)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

NOEC *Daphnia magna* (Water flea): 0.7 mg/l; 21 g
(External product safety sheet)

12.2 Persistence and degradability

No information available.

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
14.1 UN number				
UN 1773	UN 1773	UN 1773	UN 1773	UN 1773
14.2 UN proper shipping name				
FERRIC CHLORIDE, ANHYDROUS	FERRIC CHLORIDE, ANHYDROUS	FERRIC CHLORIDE, ANHYDROUS	FERRIC CHLORIDE, ANHYDROUS	FERRIC CHLORIDE, ANHYDROUS
14.3 Transport hazard class(es)				
8	8	8	8	8



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi
Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY

+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66

Factory: istoc 33.ada No: 47-49-51-53

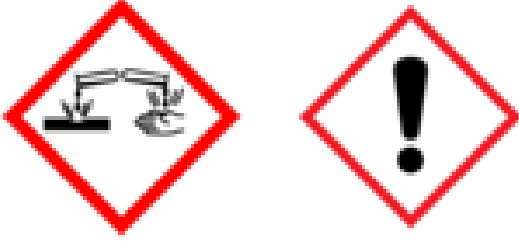
+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31

Safety Data Sheet

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

Revision Date: 11.08.2022

Version 2



14.4 Packing group

III

III

III

III

III

14.5 Environmental hazards

YES

YES

YES

YES

YES

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

H290 May corrode metals.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 Causes an allergic skin reaction.

H318 Causes serious 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



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

Tekkim Kimya Company is an group company
www.tekkim.com.tr | tekkim@tekkim.com.tr

Tekkim Kimya Sanayi ve Ticaret Limited Şirketi
Factory: O.S.B Mavi Cadde 8.Sokak No:1 Nilüfer - BURSA | TURKEY
+90 224 243 21 71 (pbx) | Fax: +90 224 242 97 66
Factory: istoc 33.ada No: 47-49-51-53
+90 212 659 64 24 (pbx) | Fax: +90 212 659 64 30 - 31