

# Safety Data Sheet

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

Revision Date: 04.08.2022 Version 2

# TEKKİM

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

### 1.1 Product identifier

Catalog No. TK.030120.00000  
Product Name Zinc Sulfate Heptahydrate  
Cas no 7446-20-0

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

#### 1.2.1. Relevant identified uses

Industrial uses. Scientific research and development. Use as 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)

Acute Tox. 4  
Serious eye damage/eye irritation  
Aquatic Acute 1  
Aquatic Chronic 1

Full text of R-, H- and EUH-phrases: 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)

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (SEA)

Prevention

P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.


Response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Get medical advice/attention.

## SECTION 3: Composition/information on ingredients



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ISO 9001:2015 and ISO 14001:2015

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

## 3.1 Maddeler

EC No	231-793-3
Molar mass	287.54 g/mol
Cas No	7446-20-0
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	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	Please give up to two glasses of water. Get immediate medical attention.

### 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

In case of fire may be liberated:.. Sulphur oxides. not flammable.. Ambient fire may liberate hazardous vapors..

### 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 dust.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

Clear spills immediately.



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## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

*Advices on safe handling*

Observe label precautions.

*Advices on general occupational hygiene*

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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

*Storage conditions*

Keep container tightly closed in a dry and well-ventilated place. Metal packaging 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*

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*

Protective clothing.

*Respiratory protection*

Required when dusts are generated

Recommended filter type :

Filter P 2 for solid and liquid particles of harmful elements (according to DIN 3181)

## SECTION 9: Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties



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Physical state	Solid
Colour	Dirty white
Odour	No information.
Odour threshold	No information.
pH value	No information.
Melting point/freezing point	100 °C
Freezing point	No information.
Initial boiling point and boiling range	No information.
Flash point	No information.
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	1,97 g/cm3
Water solubility (g/l)	No information.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
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

Releases water of crystallization when heated.

### 10.3 Possibility of hazardous reactions

Violent reactions may occur with strong oxidizing agents.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Metal, base.

### 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 - Mouse - male - 926 mg/kg  
(OECD Testing Guide 401)

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

Serious eye damage/irritation  
Eyes - Rabbit  
Consequences: Causes serious eye damage.  
(OECD Testing Guide 405)

## 11.2 Additional information

Zinc oxide dust or fumes can irritate the respiratory tract. In case of prolonged skin contact, a severe dermatitis called oxide syphilis may occur. Exposure to high levels of dust or fumes can cause a rusty taste in the mouth, extreme thirst, cough, fatigue, weakness, myalgia, nausea, followed by bouts of fever and chills. In case of serious overexposure, bronchitis or pneumonia may develop with skin bruising.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish  
static test LC50 - Pimephales promelas (Carp calf) - 0,330 mg/l - 96 h  
(ECHA)

Toxicity to daphnia and other aquatic invertebrates  
static test EC50 - Daphnia magna (Water flea) - 1.4 mg/l - 48 h  
(OECD Testing Guide 202)

Toxicity to algae (algae)  
EC50 - Chlorella vulgaris (freshwater algae) - 64.8 mg/l - 72 h  
(IUCLID)

Toxicity to bacteria  
static test EC50 - activated sludge - 5.2 mg/l - 3 h  
(OECD Testing Guide 209)

### 12.2 Persistence and degradability

Methods for measuring biological degradation are not applicable 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

Additional ecological information: Bacterial effect. It is dangerous for drinking water supplies.  
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



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UN 3077

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UN 3077

UN 3077

UN 3077

## 14.2 UN proper shipping name

ENVIRONMENTALLY  
HAZARDOUS  
SUBSTANCE, SOLID,  
N.O.S. (Contains: Zinc Sulfate  
Heptahydrate ), MARINE  
POLLUTANT

ENVIRONMENTALLY  
HAZARDOUS  
SUBSTANCE, SOLID,  
N.O.S. (Contains: Zinc Sulfate  
Heptahydrate ), MARINE  
POLLUTANT

ENVIRONMENTALLY  
HAZARDOUS  
SUBSTANCE, SOLID,  
N.O.S. (Contains: Zinc Sulfate  
Heptahydrate ), MARINE  
POLLUTANT

ENVIRONMENTALLY  
HAZARDOUS  
SUBSTANCE, SOLID,  
N.O.S. (Contains: Zinc Sulfate  
Heptahydrate ), MARINE  
POLLUTANT

ENVIRONMENTALLY  
HAZARDOUS  
SUBSTANCE, SOLID,  
N.O.S. (Contains: Zinc  
Sulfate Heptahydrate ),  
MARINE POLLUTANT

## 14.3 Transport hazard class(es)

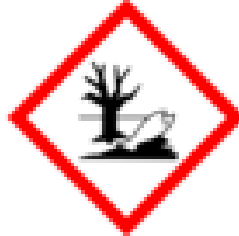
9

9

9

9

9



## 14.4 Packing group

III

III

III

III

III

## 14.5 Environmental hazards

YES

YES

YES

YES

YES

Packages less than 5 kg/l or  
equivalent, non-hazardous  
goods of Class 9

Packages less than 5 kg/l or  
equivalent, non-hazardous  
goods of Class 9

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equivalent, non-hazardous  
goods of Class 9

Packages less than 5 kg/l or  
equivalent, non-hazardous  
goods of Class 9

## 14.6 Special Precautions for User:

Packages less than 5 kg/l or equivalent, non-hazardous goods  
of Class 9

## 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

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

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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