

# Safety Data Sheet

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

Revision Date: 09.08.2022 Version 2

# TEKKİM

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

### 1.1 Product identifier

Catalog No. TK.170510.00000  
Product Name Sodium hydroxide (pearl)  
Cas no 1310-73-2

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

#### 1.2.1. Relevant identified uses

Industrial use. 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)

Corrosive to metals, Category 1  
Skin Corrosion, Category 1A

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.

H314 Causes severe skin burns and eye damage.

Precautionary Statements (SEA)

Prevention

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

Intervention

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

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

P308+P313 IF exposed and concerned: Get medical advice/attention.

## SECTION 3: Composition/information on ingredients

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

### 3.1 Maddeler



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ISO 9001:2015 and ISO 14001:2015

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EC No	215-185-5
Molar mass	40.00 g/mol
Cas No	1310-73-2
Concentration	(<= 100 % )

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<i>General information</i>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
<i>Following inhalation</i>	Remove casualty to fresh air and keep warm and at rest..
<i>Following skin contact</i>	Wash with plenty of water. Take off contaminated clothing.
<i>Following eye contact</i>	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
<i>Following ingestion</i>	Give up to two glasses of water. Get medical help immediately. Do not induce vomiting. Do not try to neutralize.

### 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

It is not flammable. 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

Clear spills immediately.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling



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## 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, aluminum, tin or zinc 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

Sodium hydroxide (1310-73-2)

EN MAK Acceptable maximum concentration (MAK) 2 mg/m<sup>3</sup>

### 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 standart EN374.

##### Other skin protection

Protective chlothing.

##### Respiratory protection

Required when dusts occur.

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	White
Odour	Odorless
Odour threshold	Not applicable.
pH value	14 100 g/l 20 °C
Melting point/freezing point	319 - 322 °C
Freezing point	No information.
Initial boiling point and boiling range	1,390 °C 1,013 hPa
Flash point	Not applicable.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	No information.
Vapour density	No information.
Density	2.13 g/cm <sup>3</sup> 20 °C
Relative density	No information.
Water solubility (g/l)	1.090 g/l 20 °C
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

Hygroscopic.

### 10.3 Possibility of hazardous reactions

With acetone, chlorine, ethylene oxide, fluorine, halogenated hydrogen compounds, hydrazine hydrate, hydroxylamine, acid anhydrides, acrolein, acid chlorides, acids, sulfuric acid, chloroform, water, hydrogen peroxide, anhydrides, phosphides, halogen-halogen compounds, trichloroethene reactions can occur.

Organic materials can degrade if they come into contact with hydrogen sulphate.

There is a risk of explosion or formation of flammable gases or vapors with powdered aluminum, ammonium salts, persulfates, sodium borohydride, phosphorus, phosphorus oxides, halogenated hydrocarbon, light metals, metals.

There is a risk of explosion/exothermic reaction with bromine, calcium, powder form, furfuryl alcohol, nitromethane, peroxides, organic nitro compounds, nitriles, acrylic monomers, silver sulfate.

### 10.4 Conditions to avoid

Moisture should be avoided.

### 10.5 Incompatible materials

Aluminum, brass, metals, metal alloys, zinc, tin.

### 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

Symptoms: If swallowed, there is a risk of perforation of the esophagus and stomach, with severe burning of the mouth and throat.

## Acute inhalation toxicity

Symptoms: burns of mucous membranes, Cough, Shortness of breath, Possible damages:., damage of respiratory tract

## Skin irritation

Rabbit

Result: Causes burns.

(External product safety sheet)

Causes severe burns.

## Eye irritation

Rabbit

Result: Irreversible effects on the eyes

(ECHA)

Causes serious eye damage.

Risk of blindness!

## 11.2 Additional information

Handle in accordance with good industrial hygiene and safety practice

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish

LC50 *Gambusia affinis* (mosquito): 125 mg/l; 96 h

(External product safety sheet)

Toxicity to daphnia and other aquatic invertebrates

EC50 *Ceriodaphnia* (dappie): 40.4 mg/l; 48 hours

(ECHA)

Toxicity to bacteria

EC50 *Photobacterium phosphoreum*: 22 mg/l; 15 minutes

(External product safety sheet)

### 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

Harmful effect due to pH change.

Forms corrosive mixtures even when diluted.

Neutralization is possible in the wastewater treatment plant.

Discharge into the environment should be prevented.

## 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



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## 14.1 UN number

UN 1823 UN 1823 UN 1823 UN 1823 UN 1823

## 14.2 UN proper shipping name

SODIUM HYDROXIDE SOLID SODIUM HYDROXIDE SOLID SODIUM HYDROXIDE SOLID SODIUM HYDROXIDE SOLID SODIUM HYDROXIDE SOLID

## 14.3 Transport hazard class(es)

8 8 8 8 8



## 14.4 Packing group

II II II II II

## 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.

H314 Causes severe skin burns and eye damage.

Person Who Prepared the Safety Data Sheet:

Name:

Certificate Number and Date:

Communication information:

Erhan DİLER

11.29.03 & 11 Şubat 2020

05069903686



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