

This document has been prepared in accordance with the provisions of Annex II Regulation of the Turkish R&D Authority, numbered 30105 and dated 23.06.2017.

1.1. Substance/Mixture Identity

Product name	SODIUM HYDROXIDE (SOLID/CAUSTIC)
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1.2. Identified uses and uses advised against for the substance or mixture.

Designated Uses	Industrial	Professional	Consumer
Industrial Wastewater Treatment	✔	-	-

1.3. Information of the safety data sheet supplier.

Company Name	SOZAL CHEMICAL INDUSTRY AND TRADE INC.		
Address	Kosab Güvenli Street No:7 Kestel 16450		
Country	Bursa		(TR)
	Türkiye		
	+0902243315153		
telephone fax	+090224-3315159		

1.4. Emergency telephone number

Please consult for urgent information.

Tel: +0902243315153

National Poison Control Center (UZEM): 114

2.1. Classification of the substance or mixture

The product is classified as a hazard under the provisions of Regulation 28848/2013 (TC) SEA.

Classification and identification of hazards:

Skin Abrasion/Irritation Category 1A	H314
Serious Eye Damage, Category 1	H318
Abrasive for Metal, Category 1	H290

2.2. Label elements

Hazard labels according to Regulation 2848/2013 (TC) SEA and subsequent amendments and adaptations.

Signs of Harm:



Warning Word: **Danger**

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This Safety Data Sheet has been prepared in accordance with the provisions of the Regulation No. 30105, Annex II of the KKDyK (Turkish Regulation on the Protection of Natural Resources and Chemical Products).			
SECTION 2. Hazard identification ... / >>			
Hazard Statements: H290 It can corrode metals. H314 It causes severe skin burns and eye damage. Precautionary statements: P260 Avoid inhaling its dust/fumes/gas/mist/vapor/spray. P264 Wash hands and skin thoroughly with water after handling. P280 Use protective gloves, protective clothing, eye protection, and face protection. P301+P330+P331 Rinse your mouth. Do not try to induce vomiting. Continue with IF IN CONTACT WITH SKIN: Immediately remove all contaminated clothing. Rinse skin with water/shower. P303+P361+P353 IF IN CONTACT WITH EYES: Rinse carefully with water for several minutes. Remove contact lenses, if any, and rinse afterwards. P305+P351+P338. P310 Call UZEM (114) or the doctor.			
2.3. Other damages			
Based on currently available information, the product does not contain y 0.1% PBT or vPvB substances. The product does not contain substances with endocrine-disrupting properties at concentrations y 0.1%.			
SECTION 3. Composition/Information about ingredients.			
3.1. Articles			
Irrelevant information			
3.2. Mixtures			
Contents: Introduction: Sodium Hydroxide (Na2CO3) / Caustic Soda Conc. %:x >= 99.0 CAS No: 1310-73-2 EC No: 215-185-5 Classification 28848/2013 (TC) SEA Regulation: Skin Corr. 1A H314, Eye Dam. 1 H318, Met.Corr 1H290 Sodium Carbonate (Na2CO3) Concentration %: x y0.8 CAS No. 497-19-8 Classification 28848/2013 (TC) SEA Regulation: Eye Irrit.2 H319 Exposed Impurities and Iron Limits - Sodium Chloride (NaCl): <= 0.05% - Iron Oxide (Fe2O3): <= 0.008% Classification 28848/2013 (TC) SEA Regulation: Not classified			

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CHAPTER 4. First aid measures.			
4.1. Description of first aid measures			
RESPIRATION: Immediately move the person to fresh air. If breathing is difficult, provide artificial respiration or oxygen support. Seek immediate medical attention. SWALLOWING: Seek medical advice/assistance. Rinse mouth with water. Act only under medical supervision. DO NOT induce vomiting. If the person is unconscious, do not give anything by mouth. SKIN CONTACT: Immediately remove all contaminated clothing and footwear. Wash your skin thoroughly with plenty of water/shower for at least 15 minutes. Seek immediate medical attention due to the risk of chemical burns. EYE CONTACT: Immediately rinse with plenty of running water for at least 15-20 minutes, keeping eyelids open. Remove contact lenses, if possible. Time is of the essence; seek immediate medical attention. .			
4.2. Acute and delayed significant symptoms and effects			
Irreversible deep chemical burns to the eyes and skin, corneal damage, risk of blindness. Severe erosion and edema in the respiratory tract if the dust is inhaled.			
4.3. First signs requiring medical intervention and specialized treatment: Apply anti-corrosive and symptomatic treatment for strong alkali exposure.			
CHAPTER 5. Firefighting measures.			
5.1. Fire extinguishers			
SUITABLE EXTINGUISHING AGENTS Extinguishing agents suitable for the type of fire in the vicinity should be selected. Dry chemical powder, foam, or water spray. UNSUITABLE FIRE EXTINGUISHING AGENTS: High-pressure water should not be sprayed directly onto large quantities of solid caustic soda (this releases excessive exothermic heat and causes splashing).			
5.2. Specific hazards arising from the substance or mixture			
HARMFUL EFFECTS FROM EXPOSURE IN CASE OF FIRE The product itself is not flammable. However, when it comes into contact with water, it releases a very high amount of heat (exothermic reaction) and can ignite flammable materials. In case of fire, sodium oxide fumes may be released. Avoid inhaling combustion products.			
5.3. Recommendations for firefighting teams			
GENERAL INFORMATION Considering the product's potential for violent reaction with water, cool the containers from the outside with a water spray. Absolutely prevent the extinguishing water from flowing into the sewage system. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING TEAMS: Self-contained open-circuit compressed air breathing apparatus (EN 137), fully alkali and abrasion-resistant protective clothing (EN 469), protective gloves (EN 659). .			

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CHAPTER 6. Measures against accidental release.

Stop the leak if there is no danger.

Avoid dust generation. Use full alkali-resistant protective equipment (section 8) to prevent contact with skin, eyes, and personal clothing.

6.2. Environmental measures

Due to its highly alkaline nature, the product should not enter the sewage system or come into contact with surface or groundwater. It is dangerous for fish and aquatic life.

6.3. Methods and materials for containment and cleaning.

Collect any leaking/dripping dry sequins or beads by sweeping or vacuuming them into closed plastic containers using clean, spark-free plastic tools, without lifting them into the air. **Do not pour water directly onto the area. Carefully remove any residue and dispose of contaminated material according to section 13.**

6.4. References to other sections

Information regarding personal protection and disposal is provided in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Prevent dust from rising. Absolutely avoid contact with eyes and skin. When preparing the mixture, always add the caustic soda slowly to the water, not the other way around. Do not eat or drink anything while using. Wash your hands after use.

7.2. Conditions for secure storage, including disputes.

Conditions for safe storage, including incompatibilities:

Keep the product in its tightly closed original packaging. The product is extremely hygroscopic (absorbs moisture) and absorbs carbon dioxide from the air, converting into sodium carbonate. Therefore, store it in a completely dry, cool, and well-ventilated place. Keep it completely away from acids, ammonium compounds, and reactive metals such as aluminum, zinc, and tin.

7.3. Specific end-use(s)

. Specific end use(s)

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references: Turkish Regulation on Health and Safety Measures in Working with Chemical Substances, dated 12.08.2013 / 28733.

The workplace exposure limit (STEL) for sodium hydroxide is 2 mg/m³.

8.2. Exposure controls HAND

PROTECTION: The

use of alkali and abrasion resistant nitrile, neoprene or PVC protective gloves is mandatory (EN 374).

SKIN PROTECTION:

Alkali-resistant full apron, protective clothing, and safety boots.

EYE PROTECTION:

Chemical safety goggles or face shields providing full protection against dust and splashes must be used (EN 166).

RESPIRATORY PROTECTION:

If dust concentrations are high, dust masks with P2 or P3 particle filters conforming to EN 149 standard must be used.

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CHAPTER 9. Physical and chemical properties

9.1. Information about basic physical and chemical properties

Features	Valence
Physical Condition	Solids (Flakes/Bead particles)
Colour	White
Smell	Not available
Melting point/freezing point	318°C
Initial boiling point	1390°C
Flammability	Not available
Lower explosive limits	Not available
Upper explosive limits	Not available
Flash point	Not available
Flash point	Not available
Decomposition	Not available
temperature pH	13-14 (Strong Alkali) Not
Kinematic viscosity,	available
solubility.	Completely soluble in water (Releases very high heat when dissolving)
Coefficient of distribution: n-octanol/water	Inorganic
Vapor pressure	Not available
Density and/or Relative Density	2.13 g/cm³
Relative vapor density	Not available
Particle properties	Applicable (in flake/particle form)

9.2. Other information

9.2.1. Information on physical hazard classes: Corrosive for metals, Category 1.

9.2.2. Other safety features: NaOH
content >= 99.0%, Na2CO3
<= 0.8%, NaCl <= 0.05%,
Fe2O3 <= 0.008%

CHAPTER 10. Stability and Reactivity

10.1. Reaction

It reacts very violently and exothermically (releasing a high amount of heat) when in contact with water and acids.

10.2. Chemical stability

It is stable in a dry and ventilated environment, in its moisture-tight packaging. It absorbs moisture and CO2 from the air.

10.3. Possibility of harmful reactions

When it comes into contact with metals such as aluminum, zinc, and tin, it reacts to release **Hydrogen (H2) gas**, which is highly flammable and explosive.

10.4. Situations to avoid

Exposure to moisture, direct uncontrolled contact with water, dust accumulation, and close storage with acids.

10.5. Substances to avoid

Strong acids, water, aluminum, zinc, tin, magnesium, ammonium salts (which cause the release of ammonia gas), and organic combustibles.

10.6. Hazardous decomposition products:

Sodium oxide fumes in case of thermal decomposition or extreme reaction with water.

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CHAPTER 11. Toxicological information

11.1. Information about toxic effects

ACUTE TOXICITY:

If swallowed, it causes immediate perforation of the digestive system and permanent severe internal burns (Oral LD50, dog: 25 mg/kg; general toxic profile).

(It is corrosive).

SKIN ABRUPTION / SKIN IRRITATION:

It causes severe skin burns (H314).

SERIOUS EYE DAMAGE / EYE IRRITATION:

Risk of permanent eye damage, corneal perforation, and blindness (H318).

RESPIRATORY TRACT OR SKIN SENSITIZATION:

It does not meet the classification criteria. -

SEX CELL MUTAGENICITY:

It does not meet the classification criteria. -

CARCINOGENICITY:

It does not meet the classification criteria. -

REPRODUCTIVE TOXICITY:

It does not meet the classification criteria. -

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:

It does not meet the classification criteria (except for intense dust inhalation).

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:

It does not meet the classification criteria. -

HARMFUL ASPIRATION:

It does not meet the classification criteria. -

11.2. Information about other hazards.

The product does not contain substances with endocrine-disrupting properties.

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This Safety Data Sheet has been prepared in accordance with the provisions of the Regulation No. 30105, Annex II of the KKDýK (Turkish Regulation on the Protection of Natural Resources and Chemical Products).			
CHAPTER 12. Ecological Information			
12.1. Toxicity Due to its strongly alkaline nature, it instantly raises the pH value of the aquatic environment it enters, having a lethal effect on fish and other aquatic organisms (LC50 - Gambusia affinis: 125 mg/l/96h). 12.2. Persistence and degradability It is an inorganic compound and is not biodegradable. It is neutralized by natural acids and converted into sodium salts. 12.3. Bioaccumulation potential There is no bioaccumulation potential. 12.4. Mobility in soil Because it dissolves completely in water, it can seep into groundwater when it seeps into the soil; it has high mobility. 12.5. Results of PBT and vPvB evaluation It does not contain more than 0.1% PBT or vPvB substances. 12.6. Endocrine disrupting properties Endocrine disrupting properties: Does not contain substances with endocrine disrupting properties. 12.7. Other adverse effects. No information available.			
SECTION 13. Disposal Information			
13.1. Waste processing methods Product residues should be considered hazardous waste due to their high alkaline content. They must be disposed of by a licensed hazardous waste disposal company in accordance with waste management regulations. Do not mix with household waste or general garbage. CONTAMINATED PACKAGING: Empty packaging must be sent to licensed hazardous waste packaging facilities for recycling or disposal. .			

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CHAPTER 14. Transportation Information					
14.1. UN number					
1823					
14.2. Appropriate UN shipping name					
SODIUM HYDROXIDE, SOLID					
14.3. Transportation hazard class(es)					
ADR / RID:		Class: 8	Label: 8 (3)		
IMDG:		Class: 8	Label: 8 (3)		
IATA:		Class: 8	Label: 8 (3)		
14.4. Packaging group					
ADR / RID, IMDG, IATA:		II			
14.5. Environmental damage					
ADR / RID:		Environmentally Hazardous			
IMDG:		Marine Pollutant			
IATA:		Environmentally Hazardous			
14.6. Special precautions for the user					
Keep them away from moisture and water, and transport them upright in their leak-proof original containers. Do not transport them in the same vehicle as reactive metals and acids.					
CHAPTER 15. Regulatory information					
15.1. Safety, health and environmental regulations specific to the substance or mixture.					
Classified and labeled in accordance with the provisions of the KKDyK Regulation No. 30105 dated 23/06/2017 and the SEA Regulation No. 28848 dated 11/12/2013:					
15.2. Chemical safety assessment					
No chemical safety assessment has been carried out for the mixtures.					
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CHAPTER 16. Other Information					
The full text of the (H) hazard codes specified in sections 2 and 3 of the Form is as follows: H290 can corrode metals. H314 causes severe skin burns and eye damage. H318 Causes serious eye damage. . The product is shipped with a manufacturer's quality certificate (COA) and third-party testing certificates. It is intended for use in industrial processes and water treatment units only. . Prepared by: Name and Surname: Sena Nur İFAK Contact Information: 0224-3315153					
 EPY 11.5.2 - SDS 1004.14					

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CHAPTER 16. Other information ... / >>			
- ATT: Acute Toxicity Estimate - CAS Number: Chemical Theories Service number - CE50: Concentration effective in 50% of the tested population - CE Number: Identification number in ESIS (European archive of available substances) - DNEL: No observable derived effect level - EmS: Emergency Schedule - ESD CEILING VALUE: Concentration that should not be exceeded at any point during occupational exposure. - GHS: Global Harmonisation System - IATA DGR: International Air Transport Association Regulations for the Transport of Dangerous Goods - IC50: Immobilization concentration at 50% of the tested population - IMDG: International Maritime Code for the Transport of Dangerous Goods - IMO: International Maritime Organization - List No.: SEA's identification number in Annex VI. - LC50: Lethal concentration 50% - LD50: Lethal dose 50% - OEL: Occupational exposure level - PBT: Persistent, bioaccumulative and toxic - PEC: Predicted Environmental Concentration - PEL: Predicted Exposure Level - PNEC: Predicted no observed effect concentration - REACH: EU Regulation 1907/2006 - RID: Regulations concerning the International Transport of Dangerous Goods by Rail - SEA: TC/28848/2013 Classification, Labelling and Packaging Regulation - TLV: Threshold limit value - TWA: Time-weighted average - TWA STEL: Time-weighted average short-term exposure limit - VOC: Volatile organic compound - vPvB: Very persistent and very bioaccumulative - WGK: Water Hazard Class (Germany).			
REFERENCES: 1. KKDyK: Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals (dated 23/06/2017 and numbered 30105 (Repeated)) (Official Gazette) 2. SEA: Regulation on the Classification, Labelling and Packaging of Substances and Mixtures (Official Gazette No. 28848 (mükerrer) dated 11/12/2013) 3. SDS: Regulation on Safety Data Sheets for Hazardous Substances and Mixtures (Official Gazette dated 13/12/2014 and numbered 29204)			
- The Merck Index. - 10th Edition - Handling Chemical Safety - INRS - Fiche Toxicologique (toxicological sheet) - Patty - Industrial Hygiene and Toxicology - NI Sax - Dangerous properties of Industrial Materials-7, 1989 Edition - IFA GESTIS website - ECHA (European Chemicals Agency) website - Database of SDS models for chemicals - Ministry of Health and ISS [Istituto Superiore di Sanità (National Institute of Health)] - Italy			
General Legal Requirements: Regulation on safety data sheets for hazardous substances and mixtures thereof. Regulation on the classification, labelling and packaging of substances and mixtures. Regulation on Health and Safety Measures in Working with Chemical Substances. Regulation on the Use of Personal Protective Equipment in Workplaces. Law No. 6331 on Occupational Health and Safety. Regulation on the Control of Hazardous Wastes. Regulation on Health and Safety Measures in Work with Carcinogenic and Mutagenic Substances. Manual Handling Operations Regulation. Waste Management Regulation. Regulations for the road transport of hazardous chemicals. Regulation on the registration, evaluation, authorization and restriction of chemicals.			
Information for users: The information presented in this safety data sheet is based on scientific and technical information available as of the date of the last revision. Users should verify the suitability and completeness of the information according to the specific application of the product. This document should not be considered a warranty for any product feature.			
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The use of this product is beyond our direct control; therefore, users must comply with applicable regulations, health, and safety rules at their own risk. The manufacturer accepts no liability for misuse. Personnel responsible for handling chemical products must receive appropriate training. CLASSIFICATION CALCULATION METHODS Chemical and physical hazards: Product classification is derived from the criteria determined according to the SEA Regulation, Annex I, Part 2. Data for evaluating chemical and physical properties are given in Chapter 9. Health hazards: Unless otherwise stated in Section 11 of the product classification, it is based on the calculation methods specified in Annex 1, Part 3 of the SEA. Environmental hazards: Unless otherwise stated in Section 12 of the product classification, it is based on the calculation methods specified in Annex 1, Part 4 of the SEA. EPY 11.5.2 - SDS 1004.14		