

GÜVENLİK BİLGİ FORMU

GBF Number SDS16
Prepare Date 07.03.2013
Revision Date 11.01.2022
Revision 10



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SODIUM HYDROXIDE SOLID

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Sodium Hydroxide Solid
CAS-Numarası : 1310-73-2

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

Identified uses : Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Likit Kimya Sanayi Ticaret A.Ş.
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1.4 Hazards identification

Emergency Phone : 112

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

2.2 Label elements

Pictogram



Signal word
Hazard statement(s)
H290
H314
Precautionary statement(s)

Danger
May be corrosive to metals
Causes severe skin burns and eye damage.

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P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

3. Composition/information on ingredients

3.1 Component

Component	Classification	Concentration
Sodium Hydroxide Solid		
CAS No	1310-73-2	May be corrosive to metals, H290; Causes severe skin burns and eye damage. 1A, H314;
EC No	215-185-5	
Endeks No	011-002-00-6	

4. First aid measures

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Do not get into eyes, on skin, or on clothing. Avoid breathing mists or spray. All personal protective equipment should be selected in accordance with the hazard assessment required by 29 CFR 1910.132 (d).

Product can react violently with water and acids. Caustic solution generates heat when further diluted with water. With concentrations greater than 40%, the heat generated can raise temperatures above the boiling point resulting in sporadic, violent eruptions or spattering. Store away from incompatible materials.

Store away from incompatible materials. (See Section 10, Stability and Reactivity of this MSDS)

Hazardous carbon monoxide gas can form upon with food and beverage products and various sugars in enclosed vessels. Precautions, including atmospheric monitoring for carbon

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monoxide, should be taken to ensure safety of personnel entering vessels.

Do not store in containers made from tin, aluminum, brass, zinc, and alloys containing these metals. Follow all federal, state, and local regulations as well as all insurance codes when storing and handling caustic soda.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls/personal protection.

8.1 Control parameters

Components with workplace control parameters.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Use splash proof chemical safety goggles and/or appropriate full-face shield. Follow the eye and face protection guidelines of 29 CFR 1910.132 and 1910.133. An eye wash fountain (in accordance with 29 CFR 1910.151) should be within the immediate work area for emergency use.

Skin protection

Chemical protective clothing and gloves must be used in accordance with 29 CFR 1910.132 and 29 CFR 1910.138

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Use appropriate NIOSH approved respirator in accordance with 29 CFR 1910.132 and 1910.134, to prevent overexposure. Respirators must be selected based on the airborne levels found in the workplace and must not exceed the working limits of the respirator.

Control of environmental exposure

**OSHA
ACGIH**

**PEL 8hour TWA
TLV –Ceiling**

**2mg/m³
2mg/m³**

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Form: White solid (flake, pearl, prill)

according to Regulation (EC) No. 1907/2006
Version 5.5 Revision Date 08.08.2016

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	Colour: White
b) Odour	No distinct odour
c) Odour Threshold	No data available
d) pH	>14,0 at 20° C
e) Melting point/freezing point	-
f) Initial boiling point and boiling range	1390 °C
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	0 mm Hg at 20 °C
l) Vapour density	Not Applicable (Air = 1.0)
m) Relative density	2,130 g/mL at 20 °C
n) Water solubility	111 gr/100 ml at 20° C
o) Partition coefficient: noctanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available

10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Water, acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin oxides, Zinc

10.6 Hazardous decomposition products

Other decomposition products - No data available

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11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral: Rabbit, LDLo 500mg/kg

Skin corrosion/irritation

Skin: Rabbit,Adult 500mg/24 H –Severe irritation

Serious eye damage/eye irritation

Eye: Rabbit,Adult 50mg/24 H –Severe irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: No data available

LDLo = Lowest lethal does in a given species by a given route exposure.

LD50 = Does that is lethal to 50% of a given species by a given route exposure.

12. Ecological information

12.1 Toxicit

Ecotoxicity: material is slightly toxic to aquatic organisms on an acute basis (LC50 between 10 and 100mg/L inmost sensitive species). May cause pH shifts outside the range of 5 –10standard units; this changemay be toxic to aquatic organisms.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

according to Regulation (EC) No. 1907/2006
Version 5.5 Revision Date 08.08.2016

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Caution: Caustic soda flakemay react violentlywith acids and water. Do not allow drainage into sewers, streams or stormconduits. Spills on areas other than pavement, dirt or sandmay be handled by removing the affected soils and placing in approved containers.

13. Disposal considerations

13.1 Waste treatment methods

Product

Waste Management Information: Do not dump into any sewers, on the ground, or into any body of water.Any disposal practicemust be in compliance with local, state and federal laws and regulations (contract local or state environmental agency for specific rules). Waste characterization and compliance with applicable laws are the responsibility of the waste generator.

14. Transport information

14.1 UN number

ADR/RID: 1823 - IMDG: 1823 - IATA: 1823

14.2 UN proper shipping name

ADR/RID SODIUM HYDROXIDE SOLID
IMDG SODIUM HYDROXIDE SOLID
IATA Sodium hydroxide solid

14.3 Transport hazard class(es)

ADR/RID: 8 IMDG: 8 IATA: 8

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: no IMDG:no IATA: no

14.6 Special precautions for user

No data available

15. Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H290 May be corrosive to metals.

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H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Further information

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