	AL Saidain Chemical Treatment of Environment Factory - ACTEF	
ACTEF	SAFETY DATA SHEET	
		Issue Date: 27/12/2022

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: CAUSTIC SODA LIQUID 32%

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

Identified uses: Industrial use.

Company name: **Al Saidain Chemical Treatment Of Environment Factory (ACTEF)**

P.O Box 23456 3rd Industrial City, Jeddah, KSA
Phone No. +966 (12) 6790317

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification (EC 1272/2008):

Physical hazards: Met. Corr. 1 - H290

Health hazards: Skin Corr. 1A - H314
Eye Dam. 1 - H318

Environmental hazards: Not Classified

Classification (67/548/EEC or 1999/45/EC): C;R35.

Label elements:

Pictogram:



Signal word: Danger

Hazard statements:
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements:
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/ doctor.
P501 Dispose of contents/ container to …
P260 Do not breathe vapour/ spray.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Contains: Sodium Hydroxide

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:

Sodium Hydroxide	32-35%
CAS number:	1310-73-2
EC number:	215-185-5
REACH registration number:	012119457892-27-XXXX
Classification:	Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

4. FIRST AID MEASURES

Description of first aid measures:

General information:	In case of exposure to substance or its vapours, obtain special treatment by doctor as soon as possible.
Inhalation:	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.
Ingestion:	Do not induce vomiting. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention immediately. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Skin contact:	Remove contaminated clothing and rinse skin thoroughly with water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
Eye contact:	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed:

Skin contact:	Causes severe burns.
Eye contact:	Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed:

Notes for the doctor:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture:

Specific hazards: Avoid direct contact of this product with water as this can cause a violent exothermic reaction.

Advice for firefighters:

Protective actions during firefighting: Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes. Fight fire from safe distance or protected location.

Special protective equipment for firefighters: Wear chemical protective suit. Use air-supplied respirator, gloves and protective goggles.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Evacuate area.

Environmental precautions: Avoid discharge into drains. Avoid release to the environment. Avoid or minimise the creation of any environmental contamination.

Methods and material for containment and cleaning up:

Methods for cleaning up: Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Wash thoroughly after dealing with a spillage. Do not touch or walk into spilled material. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water.

Reference to other sections: For personal protection, see Section 8. For waste disposal, see Section 13.

7. HANDLING AND STORAGE

Precautions for safe handling:

Usage precautions: Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

Conditions for safe storage, including any incompatibilities:

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Store at temperatures between 5°C and 50°C.

Storage class: Corrosive storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Occupational exposure limits: Sodium Hydroxide

Long-term exposure limit (8-hour TWA): WEL

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

Exposure controls:

Protective equipment:





Eye/face protection: Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection: It is recommended that chemical-resistant, impervious gloves are worn. To protect hands from chemicals, gloves should comply with European Standard EN374. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Hygiene measures: Provide eyewash station. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

Respiratory protection: If ventilation is inadequate, suitable respiratory protection must be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance: Liquid

Colour: Colourless

pH: pH (concentrated solution): 14

Initial boiling point and range: 125°C

Relative density: 1.35 @ 20°C

Other information:

Conditions for safe storage, including any incompatibilities:

Storage precautions: Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Store at temperatures between 5°C and 50°C.

Storage class: Corrosive storage.

10. STABILITY AND REACTIVITY

Reactivity: Generates heat on addition to water (exothermic). Contact with metals liberates flammable gas. Incompatible with organics.

Chemical stability:

Stability: Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions: Reacts violently with water.

Conditions to avoid: Avoid heat.

Incompatible materials:

Materials to avoid: Acids. Chlorinated Hydrocarbons Ammonia.

Hazardous decomposition products:

Thermal decomposition or combustion products may include the following substances: Hydrogen.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Toxicological effects: Harmful by inhalation, in contact with skin and if swallowed. Risk of serious damage to eyes.

Skin corrosion/irritation: Causes severe burns.

Serious eye damage/irritation: Risk of serious damage to eyes.

General information: Exposure may cause coughing and wheezing. Nausea and stomach pain may occur.

Inhalation: Vapours irritate the respiratory system. Shortness of breath. Very high concentrations may result in a loss of consciousness.

Ingestion: This product is corrosive.

Skin contact: Causes severe burns.

Eye contact: Causes serious eye damage.

12. ECOLOGICAL INFORMATION

Ecotoxicity: May cause adverse effects in the aquatic environment.

Toxicity:

Persistence and degradability: The product is biodegradable.

Bioaccumulative potential: The product is not bioaccumulating.

Mobility in soil:

Mobility: Soluble in water.

Results of PBT and vPvB assessment:

Other adverse effects:

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

General information: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods: Confirm disposal procedures with environmental engineer and local regulations. Do not allow runoff to sewer, waterway or ground.

14. TRANSPORT INFORMATION

UN number:

UN No. (ADR/RID): 1824

UN No. (IMDG): 1824

UN No. (ICAO): 1824

UN No. (ADN): 1824

UN proper shipping name:

Proper shipping name (ADR/RID): SODIUM HYDROXIDE SOLUTION

Proper shipping name (IMDG): SODIUM HYDROXIDE SOLUTION

Proper shipping name (ICAO): SODIUM HYDROXIDE SOLUTION

Proper shipping name (ADN): SODIUM HYDROXIDE SOLUTION

Transport hazard class(es):

ADR/RID class: 8

ADR/RID classification code: C5

ADR/RID label: 8

IMDG class: 8

ICAO class/division: 8

ADN class: 8

Transport labels:



Packing group:

ADR/RID packing group: II

IMDG packing group: II

ICAO packing group: II

ADN packing group: II

Environmental hazards:

Environmentally hazardous substance/marine pollutant: No.

Special precautions for user:

EmS: F-A, S-B

ADR transport category: 2

Emergency Action Code: 2R

Hazard Identification Number (ADR/RID): 80

Tunnel restriction code: (E)

Transport in bulk according to Annex II of MARPOL and the IBC Code:

15. REGULATORY INFORMATION

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

EU legislation: Regulation (EC) No 1272/2008 CLP.
Regulation (EC) No 1907/2006 REACH.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Hazard statements in full: H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by **ACTEF** who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.