

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Sodium Hydroxide	Supplier: ASES CHEMICAL WORKS.
CAS No: 1310-73-2	Address: Brahm Bagh, Jalori Gate Jodhpur - 342001 Rajasthan-India
Synonym: Caustic Soda, Soda Lye, Lye	Phone: +91-9636889954
INCI Name: Sodium Hydroxide	Web: www.ases.in
Product form: Substance	Email : ecom@ases.in
Product Use: For professional use only, Laboratory chemicals Manufacture of substances	

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

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


Skin corrosion/irritation, Category 1 H314

Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage.

2.2 Label elements :

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)  GHS05

Signal word (CLP) : Danger

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P280 - Wear 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 doctor.

Other hazards : No additional information available

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:	WT%	CAS No.	EC No.
Sodium Hydroxide	100%	1310-73-2	215-185-5

4 FIRST AID MEASURES

General:	Call a physician immediately.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician immediately.
Inhalation:	Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
Skin:	Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Call a physician immediately.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Do not induce vomiting. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms/effects :	Causes severe skin burns and eye damage.
Symptoms/effects after skin contact :	Burns.
Symptoms/effects after eye contact :	Serious damage to eyes.
Symptoms/effects after ingestion :	Burns.

MATERIAL SAFETY DATA SHEET

SODIUM HYDROXIDE

5 FIRE-FIGHTING MEASURES

Suitable & Unsuitable Extinguishing Media:

Use CO₂, Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames.

Do not use a heavy water stream.

Hazardous decomposition products in case of fires:

Toxic fumes may be released

Protection during firefighting :

Wear suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Restrict access to affected area. Use personal protective equipment. Use approved cartridge type respiratory protection. Keep people away from and upwind of spill/leak.

Environmental Protection: Prevent soil and water pollution. Prevent spreading in sewers.

Methods of Cleaning: Mechanically recover the product. Clear up rapidly by scoop or vacuum.

Other information : Dispose of materials or solid residues at an authorized site.

7 HANDLING & STORAGE

Handling: Ensure good ventilation of the work station. Do not breathe dust, gas, fume, mist, spray, vapours. Avoid contact during pregnancy/while nursing. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Storage: Comply with applicable. Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture. Store locked up. Store in a well-ventilated place. Keep cool.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protection equipment



Skin: Chemical resistant Suit gloves (e.g. butyl rubber, neoprene, polyethylene and safety shoes are recommended when dealing with emergency.

Respirator [In case of inadequate ventilation] wear respiratory protection.

Eye Protection Wear appropriate protective eyeglasses or chemical safety goggles.

Hand Protection Wear compatible chemical-resistant gloves to prevent skin exposure

Environmental exposure controls: Avoid release to the environment

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	Solid	Decomposition temperature :	No data available
Appearance :	Flakes.	Flammability (solid, gas) :	Non flammable.
Molecular mass :	40 g/mol	Vapour pressure :	< 24 hPa at 20 °C
Colour :	White.	Vapour density at 20 °C :	1.38 (Air = 1.0)
Odour :	Odourless.	Relative density :	No data available
Odour threshold :	No data available	Density :	2.13 g/cm ³ at 20°C
pH :	13 – 14 (5% Aqueous solution)	Solubility :	Water: 111 g/100ml
Melting point :	318 °C	Viscosity, kinematic :	Not applicable
Freezing point :	Not applicable	Viscosity, dynamic :	No data available
Boiling point :	1390 °C at 760 mmHg	Explosive properties :	No data available
Flash point :	Not applicable	Oxidising properties :	No data available
Auto-ignition temperature :	Not applicable	Explosive limits :	Not applicable

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10 STABILITY AND REACTIVITY

Reactivity and Chemical Stability:	Thermal decomposition generates : Corrosive vapours. Stable under normal conditions.
Hazardous Reactions:	No dangerous reactions known under normal conditions of use.
Conditions to Avoid:	Direct sunlight. Air contact. Moisture.
Incompatible Materials:	No additional information available
Hazardous decomposition products:	Thermal decomposition generates : Corrosive vapours.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral/ Dermal/ Inhalation:	Not classified
Skin corrosion/irritation :	Causes severe skin burns. pH: 13 – 14 (5% Aqueous solution)
Serious eye damage/irritation :	Assumed to cause serious eye damage pH: 13 – 14 (5% Aqueous solution)
Carcinogenicity :	Not classified
Aspiration hazard :	Not classified

12 ECOLOGICAL INFORMATION

Ecotoxicity: Before neutralisation, the product may represent a danger to aquatic organisms.

Hazardous to the aquatic environment-

Effects on fish:	Sodium hydroxide (50 % solution) is slightly toxic to aquatic organisms on an acute basis. The harmful effect may be due to pH shifts outside of 5 – 10.
short-term (acute) :	Not classified.
long term (chronic) :	Not classified.
Persistence and Degradability:	No additional information available.
Bioaccumulative Potential:	No additional information available.
Mobility in Soil:	No additional information available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods:	Dispose of contents/container in accordance with licensed collector's sorting instructions
Waste Packing:	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

14 TRANSPORT INFORMATION

UN No.	1823/24
IMDG No.	UN 1823 SODIUM HYDROXIDE, SOLID, 8, II
Shipping Name	Sodium Hydroxide
Marine Pollutant	Yes (Slightly)
Labels required	Corrosive, Class - 8
Hazard class ADR / IMDG / IATA / ADN / RID :	8
Packing group ADR / IMDG / IATA / ADN / RID :	II



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15 REGULATORY INFORMATION

LABELING:

PHRASES R:

- R22 Harmful if swallowed.
R35 Causes severe burns.
R41 Risk of serious damage to eyes.

PHRASES S:

- S1/2 Keep locked up, out of the reach of children.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27 Take off immediately all contaminated clothing.
S28 After contact with skin, wash immediately with plenty of water.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell seek medical attention immediately

16 OTHER INFORMATION

Disclaimer & Caution

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and ASES CHEMICAL WORKS assume no liability resulting from its use.