

MATERIAL SAFETY DATA SHEET

MATERIAL IDENTIFICATION

Technical Name
Sodium Hydroxide 48% Solution

Synonyms
Caustic Soda Lye

Chemical Formula
NaOH

Chemical Classification
Alkaline Inorganic compound

Hazard Class
Corrosive - 8

CAS Registry No.
1310-73-2

UN No
1824

Haz Chem Code
2R

Hazardous Waste ID No.
16

Product Use : Manufacture of Rayon, Mercurised cotton, Paper, Soap etc.. Extraction of Zinc, Petroleum Refining.
Regeneration of Water Treatment Resins.

HAZARDOUS INGREDIENTS

Hazardous Ingredient
Sodium Hydroxide

Concentration
48%

CAS/UN NO
1310-73-2

LC 50

LD 50

PHYSICAL AND CHEMICAL PROPERTIES

State
Soapy liquid

Colour
Colourless

Odour
Odourless

Molecular weight
40

Specific gravity
1.53 at 20°C

Water solubility
Soluble

pH
14

Vapour pressure
100 mm Hg at 111°C

Vapour density
N.A.

Freezing Point
Crystallization : 12-15°C
Solidification : 5°C

Melting Point
318°C

Boiling Point
142 - 148°C

Others
..

FIRE / EXPLOSION HAZARD DATA

Flammability
Non Flammable

TDG Flammability
..

Flash Point
..

Auto ignition temperature
..

Explosive range
..

Hazardous combustion products
..

Sensitivity to chemical impact
Stable

Sensitivity to static discharge
Stable

REACTIVITY DATA

Chemical Stability
Stable

Incompatibility

Acids, Flammable Materials, Nitrocompounds, Aluminium and Zinc.

Reactivity
Reacts violently with acids, Organic halides, nitrocompounds

Dangerous reaction products

Hydrogen Gas

HEALTH HAZARD DATA

Route of entry
Skin Contact, Ingestion

Permissible limits
TLV(C) = 2Mg/M³

lethal dose
LDLO (Rabbit) = 500Mg/Kg

Effects on acute exposure
Eyes : Severe irritation, Burns
Skin : Irritation, Inflammation
Ingestion : Inflammation, Scar, perforation.

Effects on Chronic exposure
Tissue damage in Respiratory Tract
Dermatitis

Sensitization to Material
Data not available

Synergistic materials
Data Not Available

PREVENTIVE MEASURES

Storage requirement :	Handling Methods
Bulk Storage in Mild Steel Tanks.	Pumping through M.S. or rigid PVC piping
Little Storage in Metal / Plastic Drums or Carboys	Trippers, Syphon Pump used drums unloading.
Engineering Controls	Personal protective equipment
Dike wall around storage tanks.	Face shield, Rubber hand gloves, Gum Boot, Protective Clothing
Drums storage in ventilated area AWAY From Heat.	
Leak, spill handling	
Contain leak, spill to prevent enter into drains.	
Flush out spills with large quantities of water.	
Washing shall be neutralised before disposal.	
Waste disposal	Special shipping information
Dilution and neutralisation of effluent water	Grades of Purity : Technical, Lye 50% Storage Temp. : Ambient Inert Atmosphere : Not required Venting : No vents

EMERGENCY / FIRST - AID MEASURES

Fire extinguishment	Special procedure
Non Combustible Material	--
First - Aid	Antidotes
Eyes / Skin	Affected area should be washed with running water at least for 15 minutes.
Ingestion	Rinse mouth several times. Do not include Vomiting, Large Intake of water. Get Medical attention.

ADDITIONAL INFORMATION

Drench water shower with eye wash fountain must be installed near the caustic handling area.

MANUFACTURER / SUPPLIER / CONSUMER DATA

THE ANDHRA SUGARS LIMITED
Chemical & Fertilisers Division
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