



CAUSTIC SODA

CHEMICAL NAME / FORMULA :
Sodium Hydroxide / NaOH

FORMATION :
Lye, Flakes and Solid

PROPERTIES:

Description	Caustic Soda Lye	Caustic Soda Flakes	Caustic Soda Solid
Appearance	Colourless Liquid	White Flakes	White Solid block
Corrosive	Yes	Yes	Yes
Flammability	Not flammable	Not flammable	Not flammable
Solubility	Soluble	Soluble	Soluble
Boiling Point		1390°C	1390°C
Melting/Freezing point		318.4°C	318.4°C
Specific Gravity		2.12 at 24°C	2.12 at 24°C
Reactivity	<ul style="list-style-type: none">• Reacts violently with acids• Reacts with ammonium salts evolving ammonia gas	<ul style="list-style-type: none">• Reacts violently with acids• Reacts with ammonium salts evolving ammonia gas	<ul style="list-style-type: none">• Reacts violently with acids• Reacts with ammonium salts evolving ammonia gas

INSTALLED CAPACITY
1,00,000 TPA

INPUT
Industrial Grade Salt (Sodium Chloride)

OUTPUT
Caustic Soda Lye,
Caustic Soda Flakes

SPECIFICATIONS: (Results on dry basis As per IS:252)

Sodium Hydroxide (as NaOH)	%	99.5 Min	Sodium Carbonate (as Na ₂ CO ₃)	%	0.4 Max.
Chloride (as NaCl)	%	0.1 Max.	Sulphates (as Na ₂ CO ₄)	%	0.1 Max.
Silicates (as SiO ₂)	%	0.02 Max.	Copper (as Cu)	ppm	2.0 Max.
Iron (as Fe)	ppm	20 Max.	Manganese (as Mn)	ppm	1.00 Max.
Chlorates & Perchlorates (NaClO ₃)	ppm	10 Max.	Matter insoluble in water	% by mass	0.05 Max.



PACKAGING AND HANDLING

Caustic Soda Lye can be stored and transported in tanks and tanker trucks. Caustic Soda Flakes can be packed in 50 kg. & 25 kg. net HDPE Bags lined with HMHDPE liner and Caustic Solid in 375 kg. net MS Drums..



TRANSPORTATION CLASSIFICATION

U.N. No.1823 / 1824, IMCO Class: 8, CAS No.1310-73-2, IMDG Page – 8225 & 8226



MATERIAL SAFETY DATA

Given Overleaf



END USERS

Aluminium, Rayon, Paper, Soap, Vanaspathi, Petroleum, Textile, Dyes industries.



MATERIAL SAFETY DATA

NAME OF THE PRODUCT	Caustic Soda Lye / Flakes / Solid
COMPOSITION / COMPONENTS	Sodium Hydroxide and Sodium Carbonate
HAZARDS IDENTIFICATION	Corrosive, Class: 8
FIRST AID MEASURES	If EYES are affected, flush with plenty of water for 15 minutes. SKIN - Remove contaminated clothes and shoes. Wash affected areas with plenty of water. If INHALED, remove victim to fresh air areas. Support respiration, Seek medical aid immediately for all types of exposures.
MEASURES FOR FIRE FIGHTING	Not Flammable.
MEASURES IN CASE OF UNINTENTIONAL RELEASE	Avoid contact with Solid or Liquid. Provide side-covered safety goggles, face shield, rubber shoes and rubber hand gloves.
HANDLING AND STORAGE	Keep in cool, dry and well-ventilated place.
EXPOSURE LIMIT AND STAFF PROTECTION EQUIPMENT	Provide side-covered safety goggles, face shield, rubber shoes and rubber hand gloves.
PHYSICAL & CHEMICAL PROPERTIES	White deliquescent pieces. Keep well stoppered; absorbs water and carbon dioxide from the air. Handle with care ; destroys organic tissue. Sp Gravity : 2.12, Melting Point : 318.4°C, Boiling Point : 1390°C. Soluble in water, alcohol and glycerol.
STABILITY AND REACTIVITY	Chemically Stable, Vigorous with Organic Halides, Metals, Nitro-Compounds.
INFORMATION OF TOXICOLOGY	Emits Toxic Fumes while on reaction
INFORMATION ABOUT ECOLOGY	Eco-friendly
INFORMATION ABOUT WASTE DISPOSAL	Seal all waste in vapour-tight plastic bags for eventual disposal.
INFORMATION ABOUT TRANSPORT	Caustic Soda Lye is transported in tanks and tank trucks. Flakes packed in HDPE bags and Solid packed in non-returnable M.S. Drums, transportable by road in trucks.
STATUTORY REGULATORY INFORMATION	Shipping Name : Sodium Hydroxide Solution / Solid. Hazchem Code 2 R Codes / Label – Corrosive, Class 8
OTHER INFORMATION	Chemical Name : Sodium Hydroxide Trade Name: Caustic Soda, Storage Category A, Packing Group II, U.N. No.1823/24, IMDG Page:8225/26, MFIAG Table No.705, C.A.S. No.1310-73-2, EMS No.8.06