

Caustic Soda Soda

DESCRIPTION

DCW produces Caustic Soda by electrolysis of industrial grade salt using environmentally friendly Membrane Cell technology.

The main Raw materials are in house produced Salt & Power.

CHEMICAL NAME & FORMULA

Sodium Hydroxide NaOH

INPUT Salt

CHEMICAL FORMATION

Aqueous Solution, Solid and Flakes.

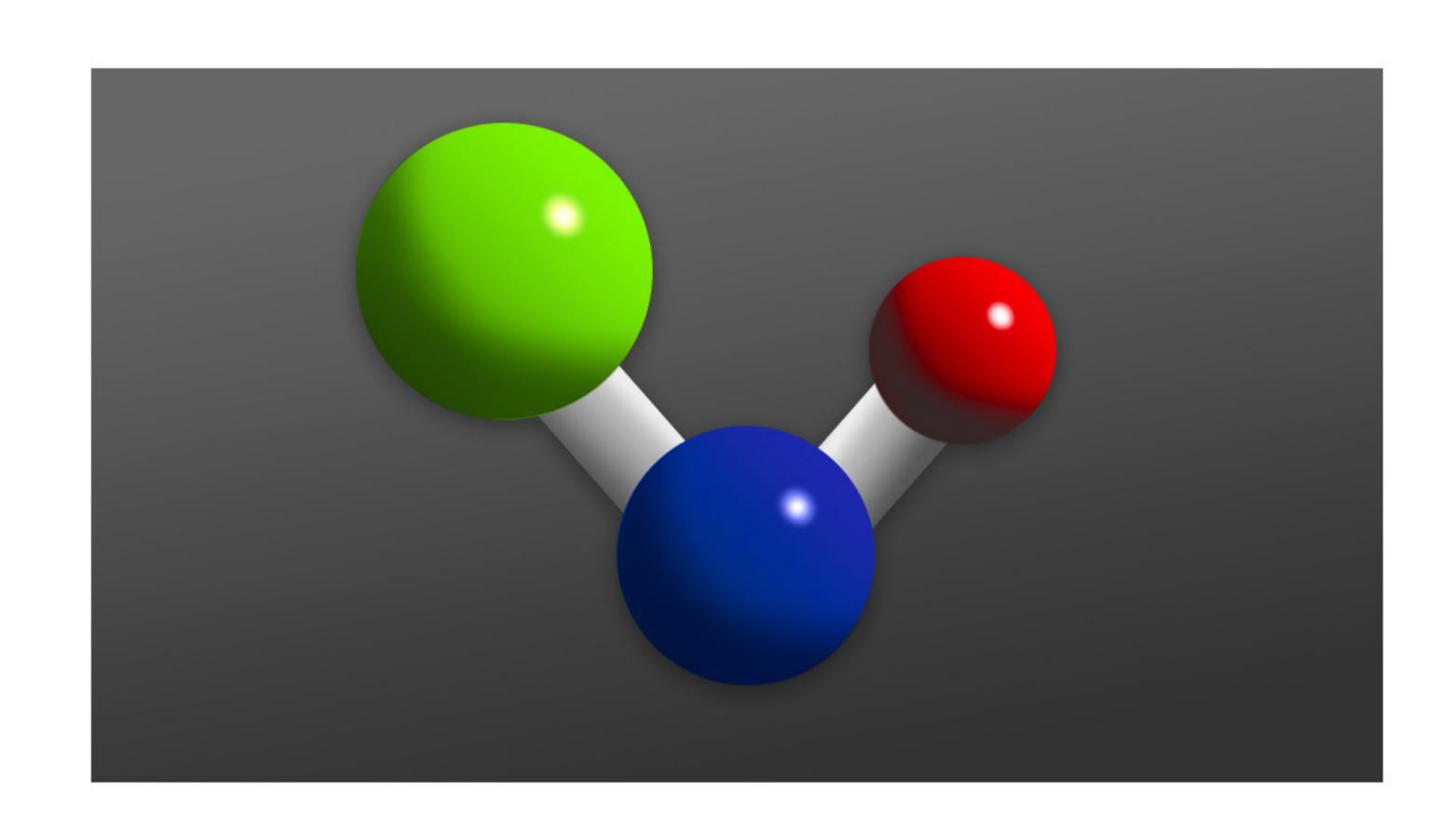
OUTPUT

Caustic Soda Lye,
Caustic Soda Flakes

APPLICATIONS

Its main uses are in the manufacture of pulp and paper, alumina, soap and detergents, petroleum products and chemical production.

Other applications include water treatment, food, textiles, metal processing, mining, glass making and others.



Product 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	143°C	1,390°C	1,390°C
Melting / Freezing Point	12°C	318.4°C	318.4°C
Specific Gravity	1.51 at 25°C	2.12 at 24°C	2.12 at 24°C
Reactivity	Reacts violently with acids Reacts with ammonium salts evolving ammonia gas	 Reacts violently with acids Reacts with ammonium salts evolving ammonia gas 	Reacts violently with acids Reacts with ammonium salts evolving ammonia gas

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Product Specifications (Results on dry basis as per IS:252-2013)

Characteristics	Caust	ic Lye	Flakes		Solids	
Sodium Hydroxide (as NaOH) % by mass	47.00	min. 48.00 min. (firm concentration)	97.00	min.	97.00	min.
Sodium Hydroxide (as NaOH) % by mass on dry basis	99.50	min.	99.50	min.	99.50	min.
Carbonates (as Na ₂ CO ₃) % by mass	0.20	max.	0.40	max.	0.40	max.
Chlorides (as Cl ⁻) % by mass	0.015	max.	0.03	max.	0.03	max.
Sulphates (as SO ₄) % by mass	0.015	max.	0.03	max.	0.03	max.
Silicates (as SiO ₂) % by mass	0.01	max.	0.02	max.	0.02	max.
Iron (as Fe) ppm	10	max.	20	max.	60	max.
Copper (as Cu) ppm	1	max.	2	max.	2	max.
Manganese (as Mn) ppm	0.5	max.	1	max.	1	max.
Chlorates & Perchlorates (as NaClO ₃) ppm	40	max.	10	max.	10	max.
Matter insoluble in water % by mass	0.025	max.	0.05	max.	0.05	max.
Mercury (as Hg) ppm	0.01	max.	0.02	max.	0.02	max.

Related Information

PACKAGING & HANDLING

Caustic soda Lye stored and transported in tanks and tanker trucks. Caustic Soda flakes packed in 50 kg and 25 kg net HDPE Bags lined with HMHDPE liner and Caustic Solid in 375kg net MS Drums. Keep in a cool dry and ventilated place.

TRANSPORT CLASSIFICATION

U.N. No. 1823 / 1824 IMCO Class 8

CAS No. 1310-73-2 IMDG Page 8225 & 8226

PRODUCT USAGES

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



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Product Safety Data

Name of Product	Caustic Soda Lye / Flakes / Solid				
Chloride (as NaCl)	Sodium Hydroxide & 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, move victim to fresh air areas. Support respiration and seek medical aid immediately for all types of exposures.				
Measures For Fire Fighting	Not Flammable				
First Aid 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 & Storage	Keep in cool, dry and well-ventilated place.				
Exposure Limit & Staff Protection Equipment	Provide side-covered safety goggles, face shield, rubber shoes and rubber hand gloves.				
Physical & Chemical Properties	White deliquescent pieces. 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 & Glycerol.				
Stability & Reactivity	Chemically Stable, Vigorous with Organic Halides, Metals and 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, MFAF Table No. 705 C.A.S. No. 1310-73-2 EMS No. 8.06				

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