



1. Product Identification

- **PROPER SHIPPING NAME:** Sodium hydroxide, solid
- **Chemical Formula:** NaOH
- **CAS Number:** 1310-73-2
- **HS Code:** 281511 10
- **UN NUMBER:** UN1823
- **ADR/RID CLASS:** 8
- **CLASSIFICATION CODE:** C6
- **PACKING GROUP:** II

2. Description

Sodium hydroxide, commonly known as caustic soda, is a highly versatile and strong alkali. It appears as a white, crystalline solid that is highly hygroscopic and dissolves readily in water with the release of heat. Produced through membrane electrolysis, our caustic soda has low chloride and iron content, meeting Kosher requirements.

3. Applications

- **Chemical Processes:** pH regulation and neutralization.
 - **Textile Industry:** Mercerization, dyeing, and printing processes.
 - **Household Products:** Production of drain cleaners, oven cleaners, and other cleaning agents.
 - **Paper and Pulp Industry:** Pulping, delignification, and bleaching.
 - **Soap and Detergent Manufacturing:** Saponification processes for solid and liquid soaps, detergents, and other cleaning agents.
 - **Water Treatment:** pH adjustment, heavy metal removal, and ion exchange resin regeneration.
 - **Oil and Petrochemical Industry:** Crude oil refining and various petrochemical processes.
 - **Aluminum Industry:** Extraction of alumina from bauxite.
 - **Food Processing:** Equipment cleaning, pH adjustment in food processes, and food product preservation.
 - **Industrial Cleaning:** Degreasing and removal of stubborn stains and coatings.
 - **Paints and Coatings:** pH adjustment in water-based formulations.
 - **Wastewater Treatment:** Effluent treatment and pH adjustment.
 - **Textile Manufacturing:** Production of synthetic fibers and textiles.
 - **Swimming Pools and Spa Water:** pH adjustment.
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4. Specifications

No.	Properties	Unit	Standard	Result	Ref. Test Method
1	Purity	Wt.%	Min 98	Min 98	ISIRI 364
2	CO₃⁻² (as Na ₂ CO ₃)	Wt.%	Max 1	Max 1	ISIRI 364
3	CL⁻ (as NaCL)	Wt.%	Max 0.06	Max 0.01	ISIRI 364
4	SO₄⁻² (as Na ₂ SO ₄)	Wt.%	Max 0.01	Max 0.01	ISIRI 364
5	Silicate (as SiO ₂)	Wt.%	Max 0.02	Max 0.0008	ISIRI 364
6	Fe	ppm	Max 30	Max 10	ISIRI 364
7	Insoluble material	Wt.%	Max 0.1	Nil	ISIRI 364
8	Al (as Al ₂ O ₃)	Wt.%	Max 20	Max 10	ISIRI 364
9	Heavy metal (as Pb)	ppm	Max 20	Max 10	ISIRI 364
10	Hg	ppm	Max 0.2	Nil	ISIRI 364
11	As (as As ₂ O ₃)	ppm	Max 2	Nil	ISIRI 364

5. Safety and Handling

Caustic soda is a highly corrosive substance and should be handled with appropriate safety measures. Personal protective equipment such as gloves, safety goggles, and protective clothing should be worn. In case of contact with skin or eyes, rinse immediately with plenty of water and seek medical advice. Ensure proper ventilation and avoid inhaling dust or fumes.

6. Storage

Store in a cool, dry place away from moisture and incompatible materials such as acids. Keep containers tightly closed and properly labeled.

7. Packaging

Available in 25 kg bags that can be shrink-wrapped on pallets.



MSDS



More info

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