

## Technical Data Sheet of Caustic soda Lye 48%

**Product Name:** Caustic Soda Lye-48%

**Product Code:** ACSCCS48

**CAS No:** 1310-73-2

**Description:** Sodium hydroxide is used the largest quantity by organic & inorganic chemical industry, bar soaps, detergents & APEO Free. It is use including drain cleaner to unclog pipes, paper and rayon, products that explode dyes & petroleum products industries & also used in industries for pH adjusting.

### **1. Physical Properties:**

Appearance: Clear Hazy viscous liquid.

Odour: Odourless or mild chemical odour

Concentration: 48±1%

Sodium carbonate: Max 0.2%

Solubility: Soluble in water

### **2. Chemical Composition:**

Main Ingredients: Sodium Hydroxide (NaOH)

Impurities: Trace amount of sodium chloride (NaCl)

### **3. Applications:**

Caustic Soda Lye is used for wide range of applications such as:

- It is use to remove excess lime from the leather during leather processing.
- Aluminium production used to dissolve bauxite ore, the raw material for aluminium production.
- Soap & Detergent used for saponification, the chemical process converts fat, tallow & vegetable oil into soap. It is also used in manufacture of anionic surfactants; a crucial component is most dangerous & cleaning products.
- Textile used to process cotton & dye synthetic fibres such as nylon & polyester.
- Bleach manufacturing used to make bleach, which has industrial & consumer application such as mould & mildew control around the home.
- Petroleum product used to explore product & process petroleum & natural gas.
- Caustic soda has faster & stronger reactivity than other alkali materials.
- The tannery or leather process makes the corrosive skin a stable, permanent & flexible natural material.

- Pharmaceutical & medicine used from common pain relievers like aspirin, to anticoagulants that can help prevent blood clots, to cholesterol-reducing medication.
- Leather dressing or tanning has several stages during which the skin turns into the leather

#### **4. Storage and Handling:**

- Store caustic lye in a cool, dry place, away from incompatible materials.
- Keep the drums tightly closed when is not in use.
- Spills may be cleaned & flushing with sufficient amount of water.
- Avoid contact with skin or eyes. In case of contact, rinse immediately with copious amounts of water and seek medical attention.
- Caustic Lye is highly caustic and corrosive. Always wear suitable personal protective equipment (PPE) when handling, including chemical-resistant gloves, safety goggles, and protective clothing.

#### **5. Packaging:**

Caustic Soda Lye is available in various container sizes, including HDPE Drums as 80kg & bulk containers.

#### **6. Shelf Life:**

The product typically has a shelf life of 24 months from the date of manufacture when stored as recommended.

#### **7. Safety and Environmental Precautions:**

Dispose of caustic lye and its containers following local, state, and federal regulations and Govt.

Do not release caustic lye into the environment. It is a hazardous substance and should be handled and disposed of accordingly.

**Disclaimer:** This technical data sheet is for informational purposes only and does not constitute a warranty or guarantee regarding the product's performance. Users should conduct their own tests to determine the suitability of Caustic Soda Lye for their specific applications.