

 <p><b>POLYPROCESSING</b> COMPANY Providing Solutions Through Innovation</p>	<b>Technical Bulletin</b>	<b>SODIUM HYDROXIDE NaOH</b>
	<b>Date: June 2005</b>	

**Tank Design:**

- SAFE-Tank<sup>®</sup>, IMFO<sup>®</sup>, Vertical, Cone and Horizontals are available
- Constructed from High Density Crosslinked Polyethylene
- Specific Gravity Rating : 1.65

**Fitting Construction:**

- Fitting Material – PVC
- Gasket Material – EPDM
- Bolt Material – 316SS
- Venting - [click here for technical document](#)
- Flexible Connections Required - [click here for more information](#)

**Factory Warranty** - [click here for warranty information](#)

**Available Options:**

- Restraint Systems – Wind / Seismic
- Level Gauges
- Ladders
- Heat Tracing and Insulation

**Chemical Characteristics:**

**Common names:** caustic soda; sodium hydrate; lye; white caustic

**Properties:** White deliquescent solid, chiefly in form of beads or pellets; also 50% and 73% aqueous solution. Absorbs water and carbon dioxide from the air. Soluble in water, alcohol, and glycerol.

**Derivation:** Electrolysis of sodium chloride (brines); reaction of calcium hydroxide and sodium carbonate.

**Hazard:** Corrosive to tissue in presence of moisture; strong irritant to tissue. Highly toxic by ingestion.

**Uses:** Chemical manufacture; rayon and cellophane; neutralizing agent in petroleum refining; pulp and paper; aluminum; detergents; soaps; textile processing; vegetable oil refining; reclaiming rubber; regenerating ion exchange resins; organic fusions; peeling of fruits and vegetables in food industry; laboratory reagent; etching and electroplating; food additive.