

SODIUM HYDROXIDE

HAZARDS IDENTIFICATION

-Potential health effects:

-Osha hazards: corrosive

-Potential health effects:

Inhalation: harmful if inhaled. Can irritate lungs, higher exposures cause a build-up of fluid in the lungs. Can lead to permanent lung damage.

Skin: material is highly corrosive. Causes skin burns.

Eyes: causes severe eye burns.

Ingestion: extremely harmful if swallowed.

-Pictogram:



ACCIDENTAL RELEASE MEASURES

- Evacuate personnel and secure location
- Eliminate ignition sources
- Absorb liquids in sand and store in sealed containers
- Collect solid materials and store in sealed containers
- Do not use water to clean up
- Do not wash into sewer.

HANDLING AND STORAGE

-Precautions for safe handling:

Avoid contact with skin and eyes.

Avoid inhalation.

-Conditions for safe storage:

Keep container tightly closed in a dry and well-ventilated place, away from ignition sources.

MORE INFORMATION:

Molecular formula: NaOH

Molar mass: 39.9971 g mol⁻¹

Appearance: White, waxy, opaque crystals

Odor: odorless

Density 2.13 g/cm³

Melting point 318 °C (604 °F; 591 K)

Boiling point 1,388 °C (2,530 °F; 1,661 K)

Solubility in water: 111 g/100 mL (20 °C)

Solubility in methanol: 23.8 g/100 mL

Solubility in ethanol: <<13.9 g/100 mL

Vapor pressure: <2.4 kPa (at 20 °C)

Acidity (pK_a): 13

Refractive index (nD): 1.3576