



Biochemical Diagnostics, Inc.

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MATERIAL SAFETY DATA SHEET

GENERAL INFORMATION

TRADE NAME: 2N Sodium Hydroxide
3N Sodium Hydroxide

Catalog Number: 3506331-5, 3506170-3,
3506173-8,

Part of Kits: 3506301-3, 3506101-1, 3506261-1,
3506261-1, 3506112-6, 3506094-4, 3506095-2

Chemical Name: Sodium Hydroxide

CAS #: 12200-64-5

Formula: NaOH: H₂O

INGREDIENTS

Components: Sodium Hydroxide Solution

Threshold Limit Values: N/A

PHYSICAL DATA

Boiling Point: 130 C

Vapor Pressure: N/A

Vapor Density: N/A

Specific Gravity: 1.15

Percent Volatile: N/A

Evaporation Rate: N/A

Solubility H₂O: Miscible

Molecular Weight: 58

pH Range: 13-14

Appearance: Clear, colorless solution

Odor: Odorless

FIRE AND EXPLOSION HAZARD DATA

Flammable Limits in air % by volume:

Lel: N/A

Uel: N/A

Flash Point: N/A

Auto Ignition Temp: N/A

Extinguishing Media: NA

Special Fire Fighting Procedures: Do not splash on clothing. Wear protective coveralls and face shield

Unusual Fire and Explosion Hazards: N/A

REACTIVITY DATA

Stability: Unstable. Absorbs CO₂.

Incompatibility: Water, acids, flammable liquids, organic materials, metals.

Materials to Avoid: Chlorinated, hydrocarbons, metals, organic materials.

Hazardous Polymerization: Will not occur

Hazardous Decomposition: Hydrogen reacts producing hydrogen gas which can readily combust with oxygen.

ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response: Contain spill. Absorb with vermiculite.

Waste Disposal Method: Dispose according to local, state, and federal regulations.

SPECIAL PROTECTION INFORMATION

Eye Protection: Safety goggles with side shields

Skin Protection: Coveralls closed to neck, gloves

Respiratory Protection: If workplace air supplied exceeds exposure limit, a respirator is recommended.

Ventilation: Should be transferred in fume hood using local exhaust.

SPECIAL PRECAUTIONS

Insert Precautions: Store in well ventilated area away from acids, metals, explosives, organic, peroxides, and easily ignitable materials.

Contaminated Equipment Precautions: Wash thoroughly with soap and water.

Hygienic Handling and Storage: Keep container closed. Isolate from incompatible material. When mixing caustic with water always add caustic slowly to water.

EMERGENCY AND FIRST AID PROCEDURES:

Ingestion: Do not induce vomiting. Drink large volume of water and milk.

Inhalation: Remove to fresh air. If difficulty breathing give oxygen. Seek medical attention.

Skin Contact: Immediately flush with copious amount of water. Rinse with dilute vinegar.

Eye Contact: Immediately flush with water. Consult doctor.

Health:	3	Severe
Flammability:	0	None
Reactivity:	1	Slight