

MILES® CAUSTIC SODA BEADS (SODIUM HYDROXIDE)

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: Sodium hydroxide (beads)

CAS No.: 1310-73-2 | Formula: NaOH

Recommended Use: Cleaning and drain products, soap and detergent making, pH adjustment, water treatment

Supplier: Miles Lubricants LLC

Emergency Telephone: CHEMTREC 1-800-424-9300 (US)

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification: Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1

Signal Word: Danger

Hazard Statements: H290 – May be corrosive to metals. H314 – Causes severe skin burns and eye damage.

Precautionary Statements: P234, P260, P264, P280, P301+P330+P331, P303+P361+P353, P304+P340, P305+P351+P338, P310, P390, P406, P501

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Sodium hydroxide (CAS 1310-73-2): approx. 98–99% minimum; sodium carbonate and sodium chloride: trace

SECTION 4: FIRST-AID MEASURES

Eye Contact: Flush immediately with water for at least 15 minutes, holding eyelids open; seek immediate medical attention.

Skin Contact: Brush off dry beads, remove contaminated clothing and flush skin with water for at least 15 minutes; seek immediate medical attention.

Inhalation: Move to fresh air; seek medical attention if dust has been inhaled or breathing is difficult.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media: Use media suitable for the surrounding fire.

Special Hazards: Not flammable; contact with some metals (such as aluminum and zinc) in the presence of moisture can release flammable hydrogen gas; dissolving in water releases

heat.

Firefighter PPE: SCBA and full chemical-resistant protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Wear protective equipment. Sweep or scoop up dry beads without creating dust; place in a closed container; flush the area with water only after the solid is removed.

SECTION 7: HANDLING AND STORAGE

Store in tightly closed, dry containers; beads absorb moisture and carbon dioxide from air. Never store in aluminum containers. Add beads slowly to water, never water to beads (dissolving releases heat).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: OSHA PEL (TWA) 2 mg/m³; ACGIH TLV (ceiling) 2 mg/m³.

Engineering Controls: Local exhaust ventilation; eyewash and safety shower nearby.

PPE: Chemical splash goggles and face shield; chemical-resistant gloves and protective clothing; NIOSH-approved respirator if dust may exceed limits.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White solid beads / pearls | **Odor:** Odorless

Melting Point: 318°C (604°F) | **Boiling Point:** 1,388°C (2,530°F)

Density: 2.12–2.13 g/cm³ | **Flash Point:** Not applicable

pH: 14 (50 g/L solution) | Hygroscopic

Solubility in Water: Very high (approx. 1,090 g/L @ 20°C)

SECTION 10: STABILITY AND REACTIVITY

Stable under normal conditions; hygroscopic. Reacts violently with acids; reacts with aluminum, zinc and tin to release hydrogen gas.

SECTION 11: TOXICOLOGICAL INFORMATION

Corrosive: causes severe burns to skin and eyes; dust is corrosive to the respiratory tract; ingestion causes severe damage to the digestive tract.

SECTION 12: ECOLOGICAL INFORMATION

Harmful to aquatic life because of its high pH. Not bioaccumulative. Prevent release to drains and waterways.

SECTION 13: DISPOSAL CONSIDERATIONS

Neutralize and dispose per local/state/federal regulations; may be regulated as corrosive hazardous waste (D002).

SECTION 14: TRANSPORT INFORMATION

DOT: UN1823, Sodium hydroxide, solid, Class 8, PG II.

SECTION 15: REGULATORY INFORMATION

Listed on TSCA. CERCLA reportable quantity: 1,000 lb. Confirm current regulatory status.

SECTION 16: OTHER INFORMATION

This SDS is a general reference compilation and does not replace the manufacturer's or Miles Lubricants LLC's officially issued, lot-specific SDS.