

MATERIAL SAFETY DATA SHEET

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PRODUCTS: Regenerant for Sodium Cation-exchange Columns

Cat. No. RG011

Section I – General

CAS #: [1310-73-2]
FORMULA: NaOH
CHEMICAL NAME: Sodium hydroxide, 0.1N
SYNONYMS: Soda lye, lye, white caustic, caustic alkali, sodium hydrate, ascarite
CHEMICAL FAMILY: Aqueous alkali solution

Section II – Hazardous Ingredients

1: Sodium hydroxide, 0.1N

Section III – Physical Data

MELTING POINT: Not available
BOILING POINT: 100°C (approximately)
VAPOR PRESSURE: < 17 mm Hg @ 20°C
% VOLATILITY BY VOLUME: 98+%
APPEARANCE: Clear, odorless solution
SOLUBILITY: Aqueous solution

Section IV – Toxicity Data

RTECS #: WB4900000
RTECS NAME: Sodium hydroxide
REVIEWS: Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data for crystalline NaOH (pure) are presented here; RG011 is 0.1N NaOH. Refer to actual entry in RTECS for complete information.

Section V – Health Hazards and First Aid

ACUTE EFFECTS: For crystalline NaOH: 1%/24 hrs eye-monkey: severe irritation; 50mg/24 hrs skin-rabbit: severe irritation; 1% eye-rabbit: severe irritation; 50µg/24 hrs eye-rabbit: severe irritation; 1mg/24 hrs eye-rabbit: severe irritation; Pure NaOH is an eye and mucous membrane irritant and severe skin irritant. The RG011 solution with a concentration of 0.1N NaOH will irritate skin, eyes, and mucous membranes. Carcinogen status: none.

CHRONIC EFFECTS: Prolonged exposure may cause bronchial irritation, coughing, bronchial pneumonia, and gastrointestinal disturbances.

EYE CONTACT: Flush with plenty of water for at least 15 minutes; assure adequate flushing by separating eyelids with fingers. Get medical attention.

SKIN CONTACT: Rinse with 1% acetic acid (or vinegar) to neutralize, followed with plenty of water while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. For chemical burns, apply sterile bandage securely, but not too tightly. Get medical attention.

INGESTION: Give water freely and/or 1% acetic acid (or vinegar), followed by milk. Do not induce vomiting. Get medical attention immediately.

Section VI – Fire and Explosion Hazards

FLASHPOINT: Not flammable

EXTINGUISHING MEDIA: Use extinguishing media appropriate to surrounding fire conditions.

FIREFIGHTING PROCEDURE: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL HAZARDS: Not applicable

EXPLOSIVE PROPERTIES: Not explosive

Section VII – Reactivity

GENERAL: Stable

INCOMPATIBILITIES: Store away from strong acid. Primary and secondary amines will cause non-hazardous contamination of this solution.

HAZARDOUS COMBUSTION OR

DECOMPOSITION PRODUCTS: Will not occur.

Section VIII – Spill or Leak Procedures

SPILL PROCEDURE: Wear eye protection and rubber / latex / vinyl gloves. Neutralize spill with diluted acetic acid. Soak up spill with rags, paper towels, sponge; rinse away or discard. Clean spill-area thoroughly with water.

WASTE DISPOSAL: This solution may be sent to an EPA-approved waste disposal facility. Comply with all federal, state, and local regulations.

Section IX – Precautions for Handling and Storage

SAFETY EQUIPMENT: Chemical safety goggles, laboratory coat, rubber / latex / vinyl gloves, safety-shower with eye-wash.

HANDLING PROCEDURES: Avoid eye and skin contact. Do not ingest. Wear safety glasses and gloves.

STORAGE PROCEDURES: Store away from strong acid, at room temperature.

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