

**SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Alpha Solve I/Alpha Solve II (Sodium Hydroxide)**

AR168, AR169, AR2174, AR2176

This product is intended for laboratory use.

Alpha Resources Inc. 3090 Johnson Rd. Stevensville, MI 49127 (269)465-5559

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word: DANGER

**SECTION 2— HAZARDS IDENTIFICATION**

**Hazard class:** Corrosive to metals (Category 1), skin corrosion (Category 1A), serious eye damage (Category 1), and acute aquatic toxicity (Category 3).

**Hazard statement:** May be corrosive to metals (H290), causes severe skin burns and eye damage (H314), causes serious eye damage (H318), and harmful to aquatic life (H402).

**Precautionary statement:** Keep only in original container (P234), don't breathe dust or mist (P260), wash skin thoroughly after handling (P264), avoid release to the environment (P273), wear protective gloves/eye protection/face protection (P280), **if swallowed:** rinse mouth. Do NOT induce vomiting (P301+P330+P331), **if on skin(or hair):** take off immediately all contaminated clothing, rinse skin with water/shower (P303+P361+P353), **if inhaled:** remove person to fresh air and keep comfortable for breathing, immediately call a poison center or doctor/physician (P304+P340+310), **if in eyes:** rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do, continue rinsing, immediately call a poison center or doctor/physician (P305+P351+P338+P310), wash contaminated clothing before reuse (P363), absorb spillage to prevent material damage (P390), store locked up (P405), store in corrosive resistant stainless steel container with a resistant inner liner (P406), dispose of contents/container to an approved waste disposal plant (P501).

**SECTION 3— COMPOSITION, INFORMATION ON INGREDIENTS****Hazardous substance required for disclosure.**

Component	CAS #	Common %
Sodium Hydroxide	1310-73-2	<100

**SECTION 4— FIRST AID MEASURES**

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). If breathing is difficult qualified personnel may administer Oxygen. If not breathing give artificial respiration when qualified.

**If on skin:** Wash with plenty of water. (P302+P352). Wash contaminated clothing before reuse (P363). Consult physician.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists:** Get medical advice or attention (P337+P313).

**If swallowed:** Rinse mouth. Call a poison center or physician.



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## SECTION 10 — STABILITY AND REACTIVITY

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**Stable** material at normal laboratory conditions.

**Avoid:** Don't create/disperse dust or powder. Will react violently with strong acids. DON'T mix with other chemicals. Keep away from incompatible materials.

**Incompatible:** Strong acids, water, Aluminum, and Zinc.

**Hazardous Decomposition:** When exposed to air water and Carbonate form.

**Hazardous Polymerization:** N/A

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## SECTION 11 — TOXICOLOGICAL INFORMATION

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**Toxicological effects:** Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. The toxicological properties haven't been fully investigated.

Acute toxicity: causes burns                      LD50 Intraperitoneal, Mouse, 40mg/kg

Local effects: Irritating to the eyes, skin, and respiratory system.

Skin corrosion/irritation: skin-rabbit: causes severe burns (24hrs)

Serious eye damage/irritation: eyes-rabbit: corrosive (24hrs)

Respiratory or skin sensitization: wont occur

**Points of entry:** inhalation, skin contact, and ingestion

**Inhalation:** N/A

**Skin contact:** N/A

**Carcinogenicity:** No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA.

**Chronic toxicity:** N/A

**Reproductive toxicity:** N/A

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## SECTION 12 — ECOLOGICAL INFORMATION

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**Eco-toxicity Data:**

**Toxicity to fish:** LC50-Gambusia affinis (mosquito fish)-125mg/l (96hrs)

LC50-Oncorhynchus mykiss (rainbow trout)-45.4mg/l (96hrs)

**Toxicity to daphnia and other aquatic invertebrates:** Immobilization EC50-Daphnia(water flea)-40.38mg/l (48hrs)

**Mobility in the soil:** N/A

**Persistence and degradability:** N/A

**Harmful to aquatic life if discharged into streams or lakes.** An environmental hazard can't be excluded in the event of handling or disposing unprofessionally.

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## SECTION 13 — DISPOSAL CONSIDERATIONS

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**Waste disposal:** Collect product and reclaim or dispose in sealed containers at a licensed waste disposal site. Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Hazardous Waste code:** The waste code should be assigned in discussion with the user, the producer, and the waste disposal company. Dispose in accordance with all applicable regulations.

**Waste from residues:** Dispose of in accordance with local regulations. Empty all containers or liners that may retain residues. This material and its container must be disposed of in a safe manner.

**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**SECTION 14 — TRANSPORT INFORMATION**

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DOT UN number: UN1823    Class: 8 Packing group: II    Proper shipping name: Sodium Hydroxide, solid  
Special Provisions: IB8, IP2, IP4, T3, TP33    Packaging exceptions: 1524    Packaging non-bulk: 212  
Packaging bulk: 240

IMDG UN number: UN1823    Class: 8 Packing group: II    Proper shipping name: SODIUM HYDROXIDE,SOLID  
Marine pollutant: No    EmS: F-A, S-B

IATA UN number: UN1823    Class: 8 Packing group: II    Proper shipping name: Sodium Hydroxide, solid  
Environmental hazard: No    ERG Code 8L

Special precaution for user: Read safety instructions, SDS and emergency procedures before handling.

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**SECTION 15 — REGULATORY INFORMATION**

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This material is considered hazardous according to OSHA HazCom 2012, 29CFR 1910.1200

**U.S. Federal Regulations**

**TSCA Status:** On Toxic Substance Control Act Inventory List.

**CERCLA Reportable Quantity:** 1000lbs.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard Categories:** Immediate hazard and reactivity hazard.

**Section 303 extremely hazardous substance:** Not listed

**SARA 311/312 Hazardous chemical:** Yes

**Massachusetts Right to know components:** Sodium Hydroxide CAS# 1310-73-2 Revision Date: 4/24/93

**Pennsylvania Right to know components:** Sodium Hydroxide CAS# 1310-73-2 Revision Date: 4/24/93

**New Jersey Right to know components:** Sodium Hydroxide CAS# 1310-73-2 Revision Date: 4/24/93

**Rhode Island Right to know components:** Sodium Hydroxide CAS# 1310-73-2 Revision Date: 4/24/93

**California Prop. 65 Components:** This product doesn't contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**HMIS and NFPA Regulations**

HMIS/NFPA: Health: 3

Flammability: 0

Physical Hazard: 2

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**SECTION 16 — OTHER INFORMATION**

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The data and information as stated was furnished by the manufacturer/vendor/supplier of this product. Alpha Resources Inc. cannot warrant the accuracy of this information and shall not be responsible or liable for any damage that may result, should any of the information be erroneous.

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