



**HI-VALLEY CHEMICAL**  
LABORATORY PRODUCTS

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**SAFETY DATA SHEET**

Hi Valley Chemical

**Caustic Soda Beads**

**1 PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier:** Caustic Soda Beads  
**Synonyms:** Sodium hydroxide  
**SDS Number:** R-028  
**Product Code:** 517480-1, 517480-5, 517480-10, 517480-20, 517480-25, 517480-50  
**Revision Date:** 11/10/2015  
**Version:** 1.0  
**Supplier Details:** High Valley Products, Inc.  
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**2 HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

- Health, Serious Eye Damage/Eye Irritation, 1
- Health, Skin corrosion/irritation, 1 A
- Environmental, Hazards to the aquatic environment - Acute, 3
- Physical, Corrosive to Metals, 1

**GHS Label elements, including precautionary statements**

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

- H318 - Causes serious eye damage
- H314 - Causes severe skin burns and eye damage
- H402 - Harmful to aquatic life
- H290 - May be corrosive to metals

**GHS Precautionary Statements:**

- P234 - Keep only in original container.
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 - Wash skin thoroughly after handling.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P310 - Immediately call a POISON CENTER or doctor/physician.

P321 - Specific treatment (see \_ on this label).  
P363 - Wash contaminated clothing before reuse.  
P390 - Absorb spillage to prevent material damage.  
P405 - Store locked up.  
P406 - Store in a corrosive resistant/\_ container with a resistant inner liner.  
P501 - Dispose of contents/container to \_

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients:

Cas#	%	Chemical Name
1310-73-2	100%	Sodium hydroxide

### 4 FIRST AID MEASURES

**Inhalation:** If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.  
**Skin Contact:** Promptly flush skin with water until all chemical is removed. Wash with soap and water.  
**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.  
**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5 FIRE FIGHTING MEASURES

**Extinguishing media**  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**  
Sodium oxides

**Advice for firefighters**  
Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**  
No data

### 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**  
Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions:**  
Do not let product enter drains.

**Methods and materials for containment and cleaning up:**  
Clean up without creating dust. Keep in suitable, closed containers for disposal.

### 7 HANDLING AND STORAGE

**Handling Precautions:** Avoid contact with eyes, skin, or clothing. Avoid breathing dust, vapors or mist.  
**Storage Requirements:** Keep container tightly closed. Store in cool/dry well ventilated area.

**Personal Protective Equipment:**

Sodium hydroxide (1310-73-2) [100%]

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min  
Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M)

Splash contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min  
Material tested: Dermatril (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Sodium hydroxide (1310-73-2) [100%]

Components with workplace control parameters

CEIL 2 mg/m<sup>3</sup> USA. ACGIH Threshold Limit Values (TLV)

C 2 mg/m<sup>3</sup> USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

TWA 2 mg/m<sup>3</sup> USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

C 2 mg/m<sup>3</sup> USA. ACGIH Threshold Limit Values (TLV)

Eye, skin, &amp; Upper Respiratory Tract irritation

C 2 mg/m<sup>3</sup> USA. NIOSH Recommended Exposure Limits

<b>Appearance:</b>	Crystalline, white
<b>Physical State:</b>	Solid
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	No data available
<b>Solubility:</b>	Soluble
<b>Spec Grav./Density:</b>	2.13
<b>Viscosity:</b>	No data available
<b>Boiling Point:</b>	1,390 °C (2,534 °F)
<b>Freezing/Melting Pt.:</b>	Melting point/range: 318 °C (604 °F) - lit.
<b>Flash Point:</b>	No data available
<b>Partition Coefficient:</b>	No data available
<b>Vapor Pressure:</b>	< 24.00 hPa (< 18.00 mmHg) at 20 °C (68 °F); 4.00 hPa (3.00 mmHg) at 37 °C (99 °F)
<b>Vapor Density:</b>	1.38 - (Air = 1.0)
<b>pH:</b>	14
<b>Evap. Rate:</b>	No data available
<b>Auto-Ignition Temp:</b>	No data available
<b>Decomp Temp:</b>	No data available
<b>UFL/LFL:</b>	No data available

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	No data available.
<b>Materials to Avoid:</b>	Strong Oxidizing Agents; Strong Acids; Organic material
<b>Hazardous Decomposition:</b>	No data available

Sodium hydroxide (1310-73-2) [100%]

Information on toxicological effects

Acute toxicity: no data available

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: Skin - rabbit Result: Causes severe burns. - 24 h

Serious eye damage/eye irritation: Eyes - rabbit Result: Corrosive - 24 h

Respiratory or skin sensitisation: Will not occur

Germ cell mutagenicity: no data available

**Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information:

RTECS: WB4900000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

## 12 ECOLOGICAL INFORMATION

Sodium hydroxide (1310-73-2) [100%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Gambusia affinis* (Mosquito fish) - 125 mg/l - 96 h.

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

Toxicity to daphnia and Immobilization EC50 - *Daphnia* - 40.38 mg/l - 48 h.

other aquatic invertebrates

Persistence and degradability: The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

## 13 DISPOSAL CONSIDERATIONS

Sodium hydroxide (1310-73-2) [100%]

Waste treatment methods

Contact a licensed professional waste disposal service to dispose of this material. .

Contaminated packaging: Dispose of as unused product.

## 14 TRANSPORT INFORMATION

UN1823, Sodium hydroxide, solid, 8, PGI

## 15 REGULATORY INFORMATION

Component (CAS#) [%] - CODES

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RQ(1000LBS), Sodium hydroxide (1310-73-2) [n/a%] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

## Regulatory CODE Descriptions

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RQ = Reportable Quantity

CERCLA = Superfund clean up substance

CSWHS = Clean water Act Hazardous substances

MASS = MA Massachusetts Hazardous Substances List

OSHA WAC = OSHA workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

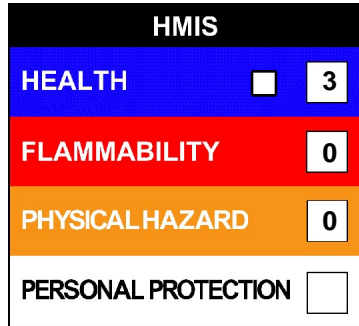
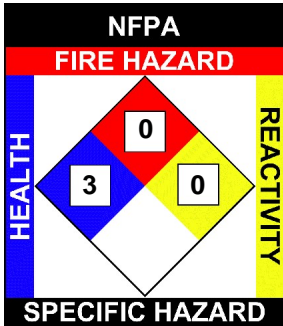
TXAIR = TX Air Contaminants with Health Effects Screening Level

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### OTHER INFORMATION

NFPA: Health = 3, Fire = 0, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 3, Fire = 0, Physical Hazard = 0



#### Disclaimer:

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