

## SAFETY DATA SHEET

### CAUSTIC SODA LIQUID - 50%

Revision Date: 05-Mar-2014

Revision Number: 16

#### 1. Product and Company Identification

##### Product Name

**Product Trade Name:** CAUSTIC SODA LIQUID - 50%

##### Other Names

**Synonyms:** None

**Product Code:** HM000193

##### Recommended Use

**Recommended Use** pH Control

**Uses Advised Against** No information available

##### Company Name, Address and Contact Details

**Manufacturer/Supplier** Halliburton New Zealand  
1 Paraite Rd,  
Bell Block, New Plymouth  
New Zealand Registration No.: 824207

**E-Mail address:** fdunexchem@halliburton.com

**Emergency Telephone Number** +64-6-7559274

**New Zealand National Poisons Centre** 0800 764 766 (24 hours)

#### 2. Hazard(s) Identification

##### Statement of Hazardous Nature

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulation 2001;  
Classified as dangerous good according to NZS 5433:2012, UN, IMDG or IATA

##### Classification

6.1D (Oral) Acutely Toxic Substances

6.1D (Dermal) Acutely Toxic Substances

8.1A Corrosive to metals

8.2B Corrosive to dermal tissue if exposed for greater than 3 mins

8.3A Corrosive to ocular tissue

9.1D Slightly harmful in the aquatic environment

9.3C Harmful to terrestrial vertebrates

##### Hazard and Precautionary Statements

##### Hazard Pictograms



**Signal Word**

Danger

**Hazard Statements**  
 H290 - May be corrosive to metals  
 H302 - Harmful if swallowed  
 H312 - Harmful in contact with skin  
 H314 - Causes severe skin burns and eye damage  
 H318 - Causes serious eye damage  
 H402 - Harmful to aquatic life  
 H433 - Harmful to the terrestrial vertebrates.

**Precautionary Statements**

**Prevention**  
 P101 - If medical advice is needed, have product container or label at hand  
 P102 - Keep out of reach of children  
 P103 - Read label before use  
 P104 - Read Safety Data Sheet before use  
 P234 - Keep only in original container  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P270 - Do not eat, drink or smoke when using this product  
 P280 - Wear protective gloves/eye protection/face protection

**Response**  
 P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P363 - Wash contaminated clothing before reuse  
 P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
 P310 - Immediately call a POISON CENTER or doctor/physician  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P390 - Absorb spillage to prevent material damage

**Storage**  
 P405 - Store locked up

**Disposal**  
 P501 - Dispose of contents/container to an approved waste disposal plant

**Contains**

Substances	CAS Number	Substance HSNO Classification
Sodium hydroxide	1310-73-2	6.1D (Oral) 6.1D (Dermal) 8.1A 8.2B 8.3A 9.1D (Crustacean, Fish) 9.3C

**2.3 Other Hazards**

None known

**3. Composition and Information on Ingredients**

Substances	CAS Number	PERCENT (w/w)
Sodium hydroxide	1310-73-2	30 - 60%

**4. First-Aid Measures**

**Requirements for First Aid or Medical Care**

**Inhalation** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.  
**Eyes** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.  
**Skin** In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse. Destroy or properly dispose of contaminated shoes.

**Ingestion**

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

**Workplace Facilities Required**

None

**Relation to Health Effect****Most Important Symptoms/Effects**

May cause eye, skin, and respiratory burns.

**Medical Attention and Special Treatment****Notes to Physician**

Treat symptomatically

## 5. Fire-fighting measures

**Type of Hazard****Flammability Hazard**

Non-flammable

**5.1 Extinguishing media****Suitable Extinguishing Media**

All standard fire fighting media

**Extinguishing media which must not be used for safety reasons**

None known.

**HAZCHEM Code****Hazchem Code:**

2R

**Special Protective Equipment and Precautions for Fire Fighters****Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

**Special Exposure Hazards**

May form explosive mixtures with strong acids. Reaction with steel and certain other metals generates flammable hydrogen gas.

## 6. Spillage, Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Use appropriate protective equipment.

See Section 8 for additional information

**6.2 Environmental precautions**

Prevent from entering sewers, waterways, or low areas.

**6.3 Methods and material for containment and cleaning up**

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Neutralize to pH of 6-8. Scoop up and remove.

**6.4 Reference to other sections**

See Section 8 and 13 for additional information.

## 7. Handling and Storage

**7.1 Precautions for Safe Handling****Handling Precautions**

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

**Handling Practices****Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

**Approved Handlers**

This product does NOT require an approved handler.

### 7.2 Conditions for safe storage, including any incompatibilities

Store away from acids. Store in a cool well ventilated area. Keep container closed when not in use. Product has a shelf life of 12 months. Store locked up.

### Store Site Requirements

No special controls required

### Packaging

No special packaging required

## 8. Exposure Controls and Personal Protection

### Workplace Exposure Standards

#### Exposure Limits

Substances	CAS Number	New Zealand WES	ACGIH TLV-TWA
Sodium hydroxide	1310-73-2	Not applicable	2 mg/m <sup>3</sup>

### Engineering Controls

#### Engineering Controls

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

### Personal Protective Equipment (PPE)

#### Respiratory Protection

Dust/mist respirator. (N95, P2/P3)

#### Hand Protection

Impervious rubber gloves.

#### Skin Protection

Full protective chemical resistant clothing.

#### Eye Protection

Chemical goggles; also wear a face shield if splashing hazard exists.

#### Other Precautions

Eyewash fountains and safety showers must be easily accessible.

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

**Physical State:** Liquid

**Color:** Clear colorless

**Odor:** Odorless

**Odor Threshold:** No information available

#### Property

#### Values

Remarks/ - Method

#### pH:

14

#### Freezing Point/Range

12 °C

#### Melting Point/Range

No data available

#### Boiling Point/Range

144 °C

#### Flash Point

No data available

#### Evaporation rate

No data available

#### Vapor Pressure

No data available

#### Vapor Density

No data available

#### Specific Gravity

1.52

#### Water Solubility

Miscible with water

#### Solubility in other solvents

No data available

#### Partition coefficient: n-octanol/water

No data available

#### Autoignition Temperature

No data available

#### Decomposition Temperature

No data available

#### Viscosity

No data available

#### Explosive Properties

No information available

#### Oxidizing Properties

No information available

### 9.2 Other information

#### VOC Content (%)

No data available

## 10. Stability and Reactivity

**10.2 Chemical Stability**

Stable

**10.4 Conditions to Avoid**

None anticipated

**10.5 Incompatible Materials**

Strong acids. Peroxides. Halogenated compounds. Amphoteric metals such as aluminum, magnesium, lead, tin, or zinc.

**10.6 Hazardous Decomposition Products**

None known.

**Hazardous Reactions****Hazardous Polymerization:** Will Not Occur**11. Toxicological Information****Health Effect from Likely Routes of Exposure****Acute Toxicity**

<b>Inhalation</b>	Causes severe respiratory burns.
<b>Eye Contact</b>	Causes severe eye burns.
<b>Skin Contact</b>	Causes severe burns.
<b>Ingestion</b>	Causes burns of the mouth, throat and stomach.

**Chronic Effects/Carcinogenicity** Prolonged, excessive exposure may cause erosion of the teeth.**Toxicity Data****Toxicology data for the components**

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	1310-73-2	No data available	1350 mg/kg ( Rabbit )	No data available

**12. Ecological Information****12.1 Toxicity****Ecotoxicity Effects****Product Ecotoxicity Data**

No data available

**Substance Ecotoxicity Data**

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Sodium hydroxide	1310-73-2	No information available	LC50: 45.4 mg/l (Oncorhynchus mykiss)	No information available	EC50(48 h): 40.4 mg/L (Ceriodaphnia sp.)

**12.2 Persistence and degradability**

The methods for determining biodegradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential**

Does not bioaccumulate

**12.4 Mobility in soil**

No information available

**Ecotoxicity Hazard Statements**

Harmful to aquatic life

Harmful to terrestrial vertebrates.

**12.6 Other adverse effects****Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

## 13. Disposal Considerations

**13.1 Waste treatment methods****Disposal Method**

Disposal should be made in accordance with federal, state, and local regulations. Substance should NOT be deposited into a sewage facility.

**Contaminated Packaging**

Follow all applicable national or local regulations. Contaminated packaging may be disposed of by: rendering packaging incapable of containing any substance, or treating packaging to remove residual contents, or treating packaging to make sure the residual contents are no longer hazardous, or by disposing of packaging into commercial waste collection.

## 14. Transport Information

**IMDG/IMO**

**UN Number:** UN1824,  
**UN Proper Shipping Name:** Sodium Hydroxide Solution  
**Transport Hazard Class(es):** , 8  
**Packing Group:** , II  
**EMS:** EmS F-A, S-B

**NZ 5433.1999**

**UN Number:** UN1824,  
**UN Proper Shipping Name:** Sodium Hydroxide Solution  
**Transport Hazard Class(es):** , 8  
**Packing Group:** , II

**IATA/ICAO**

**UN Number:** UN1824,  
**UN Proper Shipping Name:** Sodium Hydroxide Solution  
**Transport Hazard Class(es):** , 8  
**Packing Group:** , II

**Special Precautions for User** None

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

## 15. Regulatory Information

**New Zealand Inventory of Chemicals**

All components listed on inventory or are exempt.

**HSNO Approval Number**

HSR001547

**Group Name**

Not Applicable

**HSNO Controls**

Refer to the NZ EPA website for more information: <http://www.epa.govt.nz>

**Approved Handlers**

Not Applicable

**Poisons Schedule:**

S6

## 16. Other information, including date of preparation or last revision

The following sections have been revised since the last issue of this SDS

Not applicable

**Additional information**

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Compliance at 1-580-251-4335.

**Key literature references and sources for data**

www.ChemADVISOR.com/  
NZ CCID

**Revision Date:** 05-Mar-2014

**Revision Note**

Not applicable

**Disclaimer Statement**

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**End of Safety Data Sheet**