HALLIBURTON

SAFETY DATA SHEET CAUSTIC SODA

Revision Date: 18-Apr-2014 Revision Number: 22

1. Product and Company Identification

Product Name

Product Trade Name: CAUSTIC SODA

Other Names

Synonyms: None Product Code: HM003599

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 08

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

H315 - Causes skin irritation 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 landfill

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	60 - 100%

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. Avoid creating and breathing dust.

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

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 creating or inhaling dust.

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, dry location. 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 ³

Engineering Controls

Engineering Controls

Use in a well ventilated area. Localized ventilation should be used to control dust levels.

Personal Protective Equipment (PPE)

Respiratory Protection Wear a NIOSH certified, European Standard EN 149 (FFP2/FFP3), AS/NZS 1715, or

equivalent respirator when using this product.

Hand Protection Impervious rubber gloves. Nitrile gloves. Butyl rubber gloves. **Skin Protection** Full protective chemical resistant clothing. Rubber boots.

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:SolidColor:White to off whiteOdor:OdorlessOdor Threshold:No information available

Property Values Remarks/ - Method

pH: 14

Freezing Point/Range No data available
Melting Point/Range No data available

Boiling Point/Range1390 °CFlash PointNo data availableEvaporation rateNo data availableVapor PressureNo data availableVapor DensityNo data available

Specific Gravity 2.13

Water Solubility
Soluble in water
Solubility in other solvents
No data available
Partition coefficient: n-octanol/water
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

Molecular Weight 40

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

Contact with acids. Peroxides. Halogenated compounds. Prolonged contact with aluminum, lead, or zinc may liberate flammable hydrogen.

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

Inhalation Causes severe respiratory burns. May cause chemical pneumonia.

Eye Contact May cause eye burns. **Skin Contact** Causes severe burns.

Ingestion 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

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

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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 Contaminated Packaging Disposal should be made in accordance with federal, state, and local regulations. 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: UN1823

UN Proper Shipping Name: Sodium Hydroxide, Solid

Transport Hazard Class(es): 8
Packing Group: |

Environmental Hazards: Not applicable EmS: EmS F-A, S-B

NZ 5433.1999

UN Number: UN1823

UN Proper Shipping Name: Sodium Hydroxide, Solid

Transport Hazard Class(es): 8
Packing Group: ||

IATA/ICAO

UN Number: UN1823

UN Proper Shipping Name: Sodium Hydroxide, Solid

None

Transport Hazard Class(es): 8
Packing Group: ||

Special Precautions for User

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: None Allocated

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

representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact

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

Chemical Compliance at 1-580-251-4335.

Key literature references and sources for data

www.ChemADVISOR.com/ NZ CCID

Additional information

Revision Date: Revision Note Not applicable 18-Apr-2014

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End of Safety Data Sheet