

SAFETY DATA SHEET

Alkali

Preparation Date: 02-Dec-2008
Revision Number: 1.0
Revision Date: 12-Jul-2018
Date of Next Revision: 11-Jul-2023

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name Alkali
Item#: NZ14234
Recommended use Alkaline detergent
Uses advised against Restricted to professional users

Supplier DeLaval Ltd
307 Sandwich Road
Hamilton 3241
New Zealand

Telephone Number +64 7 847 9904
(8am - 4:30pm Mon-Fri)

Emergency Telephone Number 0800 764 766 (National Poison Centre)
0800 243 622 CHEMCALL

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture according to GHS

Acute toxicity - Oral - Category 4
Acute toxicity - Dermal - Category 5
Skin corrosion/irritation - Category 1B
Serious eye damage/eye irritation - Category 1
Acute aquatic toxicity - Category 3
Ecotoxic to terrestrial vertebrates - Category 3
Corrosive to Metals - Category 1

HSNO Classifications

- 6.1D Substances that are acutely toxic
- 6.1E Substances that have relatively low acute toxicity
- 8.1A Substances that are corrosive to metals
- 8.2B Substances that are corrosive to dermal tissue
- 8.3A Substances that are corrosive to the eye
- 9.1D Substances that are slightly harmful to the aquatic environment
- 9.3C Substances that are harmful to terrestrial vertebrates

2.2. Label Elements

Hazard Pictogram(s)



Signal word

DANGER

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Hazard Statements

H302 - Harmful if swallowed
 H313 - May be 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 terrestrial vertebrates
 H290 - May be corrosive to metals

Precautionary statements

P102 - Keep out of reach of children
 P270 - Do not eat, drink or smoke when using this product
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P264 - Wash hands and face thoroughly after handling
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 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 or shower.
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P310 - Immediately call a POISON CENTER/doctor.
 P363 - Wash contaminated clothing before reuse
 P390 - Absorb spillage to prevent material damage
 P405 - Store locked up
 P406 - Store in original container with a resistant inner layer.
 P273 - Avoid release to the environment
 P501 - Dispose of contents/container in accordance with local regulations

Contains

Sodium hydroxide

3. COMPOSITION/INFORMATION ON INGREDIENTS
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Chemical name	CAS No	Weight %
Sodium hydroxide	1310-73-2	30 - 60%

Other ingredients, determined not to be hazardous subject to the provisions of the Hazardous Substances (identification) Regulations 2001, make up the product concentration to 100%

4. FIRST AID MEASURES

Workplace Facilities

Eyewash bottle with clean water

General Advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye contact

Immediate medical attention is required
 Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
 Keep eye wide open while rinsing

Skin contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation

Move to fresh air
 If not breathing, give artificial respiration

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	If breathing is difficult, give oxygen Call a physician or Poison Control Center immediately
Ingestion	Immediate medical attention is required. Remove from exposure, lie down. Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Notes to Physician	Treat symptomatically.
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Hazchem Code	2X
Flammable Properties	No information available.
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO ₂). Water spray. alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available.
Specific hazards arising from the chemical	Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for cleaning up	Dam up. Take up mechanically and collect in suitable container for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep away from direct sunlight.
Type of Container/Package	Store in original container

Handle and store according to AS/NZS Standards and the Responsible Care Management Systems: Managers Handbook.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Chemical name	OSH (New Zealand, 1/2002)
Sodium hydroxide	Ceiling: 2 mg/m ³

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Tightly fitting safety goggles. Face-shield.

Skin Protection Long sleeved clothing, Chemical resistant apron, Boots

Hand Protection Neoprene gloves

Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In case of insufficient ventilation wear suitable respiratory equipment.

General Hygiene Considerations

Keep away from food, drink and animal feedingstuffs. When using, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Colorless
Physical state	Liquid
Odor	Slight
pH	>12
Vapor Pressure	No data available
Vapor Density	No data available
Flash Point	The product is not flammable
Autoignition Temperature	No data available
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Boiling Point/Range	No data available
Freezing Point/Range	No data available
Solubility	No information available
Solubility in other solvents	No data available
Specific Gravity	1.42 g/ml

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Exposure to air or moisture over prolonged periods. To avoid thermal decomposition, do not overheat. Extremes of temperature and direct sunlight.
Incompatible Materials	Incompatible with strong acids and bases, Incompatible with oxidizing agents
Hazardous decomposition products	Thermal decomposition can lead to release of irritating gases and vapours.

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Inhalation Harmful by inhalation. Causes burns.
Eye contact Causes burns. Risk of serious damage to eyes.
Skin contact Corrosive. Causes skin burns.
Ingestion Ingestion causes burns of the upper digestive and respiratory tracts. Can burn mouth, throat, and stomach. Harmful if swallowed.

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	2000 mg/Kg	1350 mg/kg	

Irritation No information available
Corrosivity Corrosive. Causes eye burns. Risk of serious damage to eyes. Causes skin burns.
Sensitization No information available.
Mutagenic effects No information available.
Carcinogenicity There are no known carcinogenic chemicals in this product.
Reproductive Effects No information available.
Developmental Effects No information available.
STOT - single exposure No information available
STOT - repeated exposure No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Ecotoxicity effects Harmful to aquatic life
 Harmful to terrestrial vertebrates

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Sodium hydroxide		LC50 (96 h) 72 mg/L		

Persistence and degradability No information available
Bioaccumulation/Accumulation No information available.
Mobility No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Should not be released into the environment. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.
Contaminated Packaging Dispose of in accordance with local regulations.

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14. TRANSPORT INFORMATION

UN-No	3266
Proper Shipping Name	Corrosive liquid, basic, inorganic, n.o.s (Sodium hydroxide)
Hazard Class	8
Packing Group	II
Hazchem Code	2X

15. REGULATORY INFORMATION

ERMA NZ Registration Number	HSR002526
ERMA Group Standard	Cleaning Products - (Corrosive) Group Standard 2006
HSNO Classifications	6.1D Substances that are acutely toxic 6.1E Substances that have relatively low acute toxicity 8.1A Substances that are corrosive to metals 8.2B Substances that are corrosive to dermal tissue 8.3A Substances that are corrosive to the eye 9.1D Substances that are slightly harmful to the aquatic environment 9.3C Substances that are harmful to terrestrial vertebrates
HSNO Conditions	Hazardous Substances Location trigger quantity: N/A Approved Handler trigger quantity: N/A Secondary containment trigger quantity: 1000L or 1000kg Signage trigger quantity: 250L or 250kg Response Plan trigger quantity: 1000L or 1000kg
ERMA Reference	ERMA User Guide to the HSNO Controls, which links to the Hazardous Substances Regulations 2001

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16. OTHER INFORMATION

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Reason for revision	Classification according to GHS
References	<p>NZS 5433:2007 Transport of Dangerous Goods on Land Land Transport (Dangerous Goods) Rule 45001:2005 Hazardous Substances Regulations 2001:</p> <ul style="list-style-type: none"> - Minimum Degrees of Hazard - Classification - Classes 1 to 5 Controls - Classes 6, 8 and 9 Controls - Packaging Regulations - Identification Regulations - Disposal Regulations - Emergency Management - Identification Regulations - Disposal Regulations <p>Health and Safety in Employment Regulations 1995 User Guide to the HSNO Thresholds and Classifications OSH Workplace Exposure Standards January 2002 NZCIC Approved Code of Practice - Preparation of Safety Data Sheets Signage for premises storing hazardous substances and dangerous goods Land Transport (Dangerous Goods) Rule 45001:2005 Hazardous Substances Regulations 2001:</p> <ul style="list-style-type: none"> - Minimum Degrees of Hazard - Classification - Classes 1 to 5 Controls - Classes 6, 8 and 9 Controls - Packaging Regulations - Identification Regulations - Disposal Regulations - Emergency Management - Identification Regulations - Disposal Regulations <p>Health and Safety in Employment Regulations 1995 User Guide to the HSNO Thresholds and Classifications OSH Workplace Exposure Standards January 2002 NZCIC Approved Code of Practice - Preparation of Safety Data Sheets Signage for premises storing hazardous substances and dangerous goods</p>

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage,

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transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of SDS