

SAFETY DATA SHEET

Alkali

Preparation Date: 02-Dec-2008
Revision Number: 3.2
Revision Date: 02-Oct-2025
Date of Next Revision: 01-Oct-2030

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, 82 Greenwood street, Hamilton New Zealand
Telephone Number	(07) 849-6020 (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
Skin corrosion/irritation - Category 1B
Serious eye damage/eye irritation - Category 1
Corrosive to Metals - Category 1

2.2. Label Elements

Hazard Pictogram(s)



Signal word	DANGER
Hazard Statements	H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage H318 - Causes serious eye damage H290 - May be corrosive to metals
Precautionary statements	P102 - Keep out of reach of children P234 - Keep only in original packaging

P260 - Do not breathe dust/fume/gas/mist/vapors/spray
 P264 - Wash hands and face thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
 P301 + P317 - IF SWALLOWED: Get medical help
 P330 - Rinse mouth
 P302 + P361 + P354 - IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P305 + P354 + P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P316 - Get emergency medical help immediately
 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.
 P501 - Dispose of contents/container in accordance with local regulations

Contains Sodium hydroxide

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium hydroxide	1310-73-2	30 - 60%

4. FIRST AID MEASURES

Workplace Facilities	Ensure that eyewash stations and safety showers are close to the workstation location
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 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. Corrosive to metals. Keep away from metals.
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

Chemical name	WES (New Zealand)
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
Odor Threshold	No information available
pH	>12
Melting Point/Range	No data available
Freezing Point/Range	No data available
Boiling Point/Range	No data available
Initial boiling point/range	No data available
Flash Point	The product is not flammable
Flammability (solid, gas)	No information available
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative density	No data available
Solubility	No information available
Solubility in other solvents	No data available
Partition Coefficient (n-octanol/water)	No information available
Autoignition Temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Particle characteristics	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.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Inhalation	No information available.
Eye contact	No information available.
Skin contact	No information available.
Ingestion	Harmful if swallowed.

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	325 mg/kg	1350 mg/kg	

Skin corrosion/irritation

Causes severe skin burns

Serious eye damage/eye irritation

Causes serious eye damage

Respiratory or skin sensitization

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Based on available data, the classification criteria are not met

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Reproductive toxicity

Based on available data, the classification criteria are not met

Developmental Effects

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Sodium hydroxide		LC 50 (96 h) 45.4 mg/l (Oncorhynchus mykiss)		EC50 (48h): 40.4 mg/l (Ceriodaphnia dubia)

Persistence and degradability No information available**Bioaccumulation/Accumulation** No information available.**Mobility** No information available**Other adverse effects** 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.

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

EPA NZ Registration Number	HSR002526
EPA Group Standard	Cleaning Products - (Corrosive) Group Standard 2006
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 Location certification trigger: 250L
EPA Reference	Guidance to the changes introduced by the Health and Safety at Work (Hazardous Substances) Regulations 2017

16. OTHER INFORMATION

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References	<ul style="list-style-type: none">- Hazardous Substances (Hazardous Classification) Notice 2020- Hazardous substances (Labelling) Notice 2017- Hazardous Substances (Safety Data Sheets) Notice 2017- European Agreement concerning the International Carriage of Dangerous Goods by Road- New Zealand Workplace Exposure Standards (WES)- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans- Chemical Classification and Information Database (CCID)

Disclaimer

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End of SDS