

Preparation Date: 27-Jan-2009
Revision Number: 3.0
Revision Date: 30-Oct-2025
Date of Next Revision: 29-Oct-2030

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

Product Name	Chlortech
Item#:	NZ14236
Recommended use	Low foam high performance chlorinated 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	+64 3 474 7000 (National Poisons 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

H290 - May be corrosive to metals
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage

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 + 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 person to fresh air and keep 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.
 P330 - Rinse mouth
 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	> 60%
Sodium carbonate	497-19-8	10 - 30%
Dichloroisocyanuric acid, sodium salt	2893-78-9	1 - 10%
Sodium metasilicate pentahydrate	10213-79-3	1 - 10%

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 Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
Call a physician immediately

Skin contact Take off contaminated clothing and shoes immediately
Wash off immediately with plenty of water for at least 15 minutes
Call a physician immediately

Inhalation Remove to fresh air and keep at rest in a position comfortable for breathing
If breathing is difficult, give oxygen
If symptoms persist, call a physician

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. Drink 1 or 2 glasses of water. 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	The product is not flammable.
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. May evolve toxic fumes in fire (toxic chlorine compounds). 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	White
Physical state	Powder
Odor	Slight chlorine
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	Soluble in water
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	1.0
Corrosive to metals	Corrosive to metals

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	
Sodium carbonate	2800 mg/kg (Rat)	2000 mg/kg (Rabbit)	2300 mg/m ³ (Rat)
Dichloroisocyanuric acid, sodium salt	= 1823 mg/kg (Rat)	> 5000 mg/kg (Rat)	0.27 - 1.17 mg/L (Rat) 4 h
Sodium metasilicate pentahydrate	= 847 mg/kg (Rat)		

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**Ecotoxicity effects**

Prevent release to the environment.

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)
Sodium carbonate		310 - 1220: 96 h Pimephales promelas mg/L LC50 static 300: 96 h Lepomis macrochirus mg/L LC50 static		265: 48 h Daphnia magna mg/L EC50
Dichloroisocyanuric acid, sodium salt		0.13 - 0.36: 96 h Oncorhynchus mykiss mg/L LC50 static 0.176 - 0.267: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.207 - 0.389: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.25 - 1: 96 h Lepomis macrochirus mg/L LC50 static 0.29: 96 h Oncorhynchus mykiss mg/L LC50		0.00018 - 0.00021: 48 h Daphnia magna mg/L EC50 0.093 - 0.16: 48 h Daphnia magna mg/L EC50

Persistence and degradability No information available**Bioaccumulation/Accumulation** Does not bioaccumulate.**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. Dispose of in accordance with local regulations.**Contaminated Packaging** Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

UN-No 3262
Proper Shipping Name CORROSIVE SOLID, 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	Approved Handler trigger quantity: N/A Location Compliance certification trigger: 250L or 250 kg Signage trigger quantity: 250L or 250kg Response Plan trigger quantity: 1000L or 1000kg Secondary containment trigger quantity: 1000L or 1000kg
EPA Reference	Guidance to the changes introduced by the Health and Safety at Work (Hazardous Substances) Regulations 2017

16. OTHER INFORMATION

Prepared By	DeLaval NV Industriepark-Drongen 10 9031 Gent Belgium
Preparation Date:	27-Jan-2009
Revision Number:	3.0
Revision Date:	30-Oct-2025
Date of Next Revision:	29-Oct-2030
Reason for revision	Update Section: 2 (classification and labeling)
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