

Preparation Date: 27-Jan-2009
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	Chlortech
Item#:	NZ14236
Recommended use	Low foam high performance chlorinated 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	+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

HSNO Classifications	6.1D Substances that are acutely toxic 8.2A Substances that are corrosive to dermal tissue 8.3A Substances that are corrosive to the eye 9.1B Substances that are ecotoxic to aquatic environment 9.2B Substances that are ecotoxic in the soil environment 9.3C Substances that are harmful to terrestrial vertebrates
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2.2. Label Elements

Hazard Pictogram(s)



Signal word

DANGER

Hazard Statements

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H411 - Toxic to aquatic life with long lasting effects
H422 - Toxic to the soil environment
H433 - Harmful to terrestrial vertebrates

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Precautionary statements

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
 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
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 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.
 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.
 P312 - Call a POISON CENTER/doctor if you feel unwell
 P321 - Specific treatment (see product label)
 P322 - Specific measures (see .? on this label)
 P330 - Rinse mouth
 P338 - Remove contact lenses, if present and easy to do. Continue rinsing
 P363 - Wash contaminated clothing before reuse
 P391 - Collect spillage
 P405 - Store locked up
 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	> 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%
Pentasodium triphosphate	7758-29-4	1 - 10%
Polyethylene-polypropylene glycol	9003-11-6	1 - 10%

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

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

Wash off immediately with plenty of water for at least 15 minutes
 Call a physician immediately

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Inhalation	Move to fresh air 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.
Type of Container/Package	Store in original container

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

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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	White
Physical state	Liquified Gas
Odor	Slight chlorine
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	Soluble in water
Solubility in other solvents	No data available
Specific Gravity	1.0

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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	Harmful by inhalation.
Eye contact	Causes serious eye damage.
Skin contact	Harmful in contact with skin. Causes skin burns.
Ingestion	Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. Can burn mouth, throat, and stomach.

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	2000 mg/Kg	1350 mg/kg	
Sodium carbonate	= 4090 mg/kg (Rat)		= 2300 mg/m ³ (Rat) 2 h
Dichloroisocyanuric acid, sodium salt	= 1823 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	0.27 - 1.17 mg/L (Rat) 4 h
Sodium metasilicate pentahydrate	= 847 mg/kg (Rat)		
Pentasodium triphosphate	= 3120 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	
Polyethylene-polypropylene glycol	= 16 g/kg (Rat) = 5700 mg/kg (Rat)		= 320 mg/m ³ (Rat) 4 h

Irritation	No information available
Corrosivity	Corrosive. Causes severe skin burns and eye damage.
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.

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12. ECOLOGICAL INFORMATION

Ecotoxicity**Ecotoxicity effects**

Toxic to aquatic life with long lasting effects
 Very toxic to the soil environment
 Harmful to terrestrial vertebrates

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Sodium hydroxide		LC50 (96 h) 72 mg/L		
Sodium carbonate	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static		265: 48 h Daphnia magna mg/L EC50
Dichloroisocyanuric acid, sodium salt		0.176 - 0.267: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.13 - 0.36: 96 h Oncorhynchus mykiss mg/L LC50 static 0.25 - 1: 96 h Lepomis macrochirus mg/L LC50 static 0.207 - 0.389: 96 h Lepomis macrochirus mg/L LC50 flow-through 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
Pentasodium triphosphate		1650: 48 h Leuciscus idus mg/L LC50		

Persistence and degradability No information available

Bioaccumulation/Accumulation Does not bioaccumulate.

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. 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

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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 8.2A Substances that are corrosive to dermal tissue 8.3A Substances that are corrosive to the eye 9.1B Substances that are ecotoxic to aquatic environment 9.2B Substances that are ecotoxic in the soil 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	Land Transport (Dangerous Goods) Rule 45001:2005 Hazardous Substances Regulations 2001: <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 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

Disclaimer

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End of SDS