

# SAFETY DATA SHEET

Chlortech

Issue Date 08-May-2014

Revision Date 08-May-2019

Revision number: 1

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

**Product Description:** Chlortech  
**Item#:** NZ14236  
**Recommended use** Low foam high performance chlorinated alkaline detergent  
  
**Supplier** DeLaval Manufacturing  
PO Box 15-205  
Kells Place  
Hamilton, New Zealand  
Tel +64 7 847 9904 (8am-4:30pm M-F)

**Emergency Telephone Number** +64 3 474 7000 (National Poisons Centre)  
0800 243 622 CHEMCALL

## 2. HAZARD IDENTIFICATION

### HAZARDOUS SUBSTANCE DANGEROUS GOODS

#### DANGER

Harmful if swallowed  
May cause damage to lungs  
The product causes burns to eyes, skin, and mucous membranes  
May be corrosive to metals  
Toxic to aquatic life with long lasting effects  
Toxic to the soil environment  
Harmful to terrestrial vertebrates

#### Potential Health Effects

**Principle Routes of Exposure** Eye contact  
Skin contact  
Ingestion  
Inhalation

#### Major effects of exposure

<b>EYES</b>	Corrosive to the eyes and may cause severe damage including blindness
<b>SKIN</b>	Extremely corrosive and destructive to tissue
<b>INGESTION</b>	Ingestion causes burns of the upper digestive and respiratory tracts. Can burn mouth, throat, and stomach. Harmful if swallowed.

**INHALATION**

Harmful by inhalation Possible harmful effects to the linings of the nose, mouth, and throat

**Read Safety Data Sheet before use**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No	Weight %
Dichloroisocyanuric acid, sodium salt	2893-78-9	5 - 10
Sodium carbonate	497-19-8	10 - 30
Sodium hydroxide	1310-73-2	60 - 100

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**

**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.

**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 Centre 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<sub>2</sub>). 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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	OSH (New Zealand, 1/2002)
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>

**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

<b>Form</b>	Granular solid
<b>Odor</b>	Slight chlorine
<b>pH</b>	> 12
<b>Specific Gravity</b>	1.0
<b>Water Solubility</b>	Soluble in water
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Flash Point</b>	The product is not flammable
<b>Boiling Point/Range</b>	No data available
<b>Freezing Point/Range</b>	no data available

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dichloroisocyanuric acid, sodium salt	735 mg/kg ( Rat )	2000 mg/kg ( Rabbit ) 5000 mg/kg ( Rat )	50 mg/L ( Rat )
Sodium carbonate	4090 mg/kg ( Rat )		
Sodium hydroxide	2000 mg/Kg	1350 mg/kg	

### Potential Health Effects

<b>Eye irritation</b>	Causes burns. Corrosive to the eyes and may cause severe damage including blindness.
<b>Skin irritation</b>	Causes burns. Possible risks of irreversible effects.
<b>Inhalation</b>	Inhaled corrosive substances can lead to a toxic oedema of the lungs. Symptoms may be delayed.
<b>Ingestion</b>	Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

### Carcinogenicity

There are no known carcinogenic chemicals in this product

<b>Sensitization</b>	No information available
<b>Neurological Effects</b>	No information available
<b>Mutagenic effects</b>	No information available
<b>Reproductive Effects</b>	No information available
<b>Developmental Effects</b>	No information available
<b>Target Organ Effects</b>	Eyes, Respiratory system, Skin.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

<b>Ecotoxicity effects</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
	Toxic to the soil environment
	Harmful to terrestrial vertebrates

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Dichloroisocyanuric acid, sodium salt				EC50 0.18 - 0.21 mg/L 48 h
Sodium carbonate	EC50 = 242 mg/L 120 h			EC50 = 265 mg/L 48 h
Sodium hydroxide		LC50 (96 h) 72 mg/L		

<b>Persistence and degradability</b>	No information available
<b>Bioaccumulation/ Accumulation</b>	Does not bioaccumulate.
<b>Mobility</b>	No information available

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method</b>	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.
<b>Contaminated Packaging</b>	Dispose of in accordance with local regulations.

## 14. TRANSPORT INFORMATION

<b>UN-No</b>	3262
<b>Proper Shipping Name</b>	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>Hazchem Code</b>	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  
6.9B Substances that are harmful to target organs  
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  
9.1B Substances that are ecotoxic to aquatic environment  
9.2B Substances that are ecotoxic in the soil environment  
9.3B Substances that are ecotoxic 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

## 16. OTHER INFORMATION

**Prepared By**  
DeLaval Manufacturing  
11100 N. Congress Ave.  
Kansas City, MO 64153 USA  
1-816-891-7700

**References**  
Land Transport (Dangerous Goods) Rule 45001:2005  
Hazardous Substances Regulations 2001:  
- 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**

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, 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

**Note**

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Document preparation date	Document revision date	Date document revised	Version
08-May-2014	08-May-2019		1

**End of SDS**