

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

EYES Corrosive to the eyes and may cause severe damage including blindness
SKIN Extremely corrosive and destructive to tissue
INGESTION 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 (CO2). 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 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

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

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

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

Eye irritation	Causes burns. Corrosive to the eyes and may cause severe damage including blindness.
Skin irritation	Causes burns. Possible risks of irreversible effects.
Inhalation	Inhaled corrosive substances can lead to a toxic oedema of the lungs. Symptoms may be delayed.
Ingestion	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

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects	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		

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.
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
- 6.9B 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

Once printed this document is not controlled. Please contact DeLaval for the latest version

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

End of SDS