

**CHLOR-ALKALI****MATERIAL SAFETY DATA  
SHEET****CHLOR-ALKALI**

File No.: 225533609

# CHLOR-ALKALI

## 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Product Name : **CHLOR-ALKALI**

Supplier Details : Deosan New Zealand Ltd.  
20 Seddon Street  
Waharoa  
Telephone: 0800 336 726 (0800 DEOSAN)  
Fax: 07 888 5624  
Email: [info@deosan.co.nz](mailto:info@deosan.co.nz)

Product & Sales Enquiries : 0800 336 726 (0800 DEOSAN)

Emergency Contact Numbers : **24 hour company contact:**  
0800 DEOSAN (0800 336 726)  
**Specialist Advice:**  
0800 CHEMCALL (0800 243 622)  
**Medical Advice –National Poisons Centre**  
0800 POISONS (0800 764 766)  
**Ecotoxic Spillage – Call Regional Council**  
**Pollution Response Service:**  
0800 800 401

Product Details : Formulated for hot (min 65°C) cleaning of milking equipment, alternative to routine acid cleaning medium foaming.

## 2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of in the Hazardous Substances and New Organisms Act 1996 (HSNO)

HSNO Approval Number: HSR002526

UN Number: 3266

Dangerous Goods Class: 8

Packing Group: II

**HSNO Classification:**

- 6.1D (Harmful if swallowed)
- 8.1A (May be corrosive to metals)
- 8.2A (Causes severe skin burns and eye damage)
- 8.3A (Causes serious eye damage)
- 9.1D (Toxic to aquatic life. May cause long lasting harmful effects to aquatic life.)
- 9.3C (Harmful to terrestrial vertebrates)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Components	CAS- No.	Concentration [%]
Sodium Polyacrylate	9003-04-7	<5.0
Aliphatic Condensate Surfactant	119345-04-9	<5.0
Sodium Hypochlorite	7681-52-9	>20.0
Sodium Hydroxide 50%	1310-73-2	>20.0
Water	7732-18-2	To 100%

# CHLOR-ALKALI

## 4. FIRST AID MEASURES

- If Inhaled:** Remove to fresh air and keep at rest in a position comfortable for breathing.
- If Swallowed:** Swallowed product can cause nausea, diarrhoea, burns to the mouth and digestive tract. Rinse mouth. Do NOT induce vomiting. Drink water, Milk of magnesia or Milk. Immediately call a POISON CENTER or doctor/physician.
- If In Eyes:** Contact with eyes causes serious eye damage. Flush immediately to reduce injury. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do, continue rinsing.
- If On Skin (or Hair):** Causes severe skin burns. Wear protective clothing when handling product. Wash immediately area affected to reduce injury if contact with skin happens. Remove, take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before re use.

Immediately call a POISON CENTRE or doctor physician. Get medical attention if you feel unwell. Absorb spillage to prevent material damage.

## 5. FIRE-FIGHTING MEASURES

**CHLOR-ALKALI** product is not flammable. Any fire extinguishers used in the vicinity are to be suitable for the combustibles in the area. Do not apply water directly onto open quantities of product, always dilute product into water. Fire-fighters should wear full protective clothing suitable for chemical hazards with self contained breathing apparatus.

**HAZCHEM Code:** 2X

## 6. ACCIDENTAL RELEASE MEASURES

Wear protective gloves, clothing and eye/face protection. Keep unnecessary people away from the hazardous area. Dike spillage area to prevent runoff and contamination of water sources; Clean up by absorbing with sand or soil, or diluting with water and then remove contaminants to a chemical disposal area.

## 7. HANDLING AND STORAGE

Read Label Before Use.

**Handling:** Wear protective gloves, clothing and eye/face protection. Do not breathe mist or vapours, use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product, wash hands thoroughly after handling. Keep only in original container. Do not release to the environment.

**Storage:** Store in corrosive resistant container with a resistant liner. Store locked up. Store away from acids  
**Danger – Corrosive – Keep out of reach of children**

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

**Sodium Hydroxide 50%:** 2 mg/m<sup>3</sup> TWA

### Engineering Controls

No specific exposure controls are needed.

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# CHLOR-ALKALI

## Personal Protective Equipment (PPE)

When handling product at all times wear:

- PVC protective gloves
- Protective clothing
- Safety Glasses/Goggles/Face Shield
- Chemical/water proof boots
- Chemical resistant apron

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Specifications	
Appearance	Light yellow Liquid
Odour	Chlorine
pH	11.7 – 12.0
Vapour Pressure	Not available for substance
Vapour Density	Not available for substance
Boiling Point	~100°C
Freezing Point	~0°C
Solubility	Completely in water
Specific Gravity	1.212-1.221 gm/ml at 20°C

## 10. STABILITY AND REACTIVITY

### Stability

**CHLOR-ALKALI** is a stable product.

### Reactivity

Generates heat on dilution with water; **Always add CHLOR-ALKALI to water**. A violent reaction may occur if water is added directly onto product.

### Hazardous Reactions

Hazardous violent reaction if **CHLOR-ALKALI** solutions are mixed with Acid's.  
Chlorine gas is emitted if solutions are mixed with acid compounds.

## 11. TOXICOLOGICAL INFORMATION

<b>General</b>	<b>CHLOR-ALKALI</b> is harmful if not handled appropriately.
<b>Ingestion</b>	If swallowed will cause burning of digestive tract.
<b>Inhalation</b>	Harmful if inhaled. Causes damage to organs through prolonged or repeated exposure.
<b>Skin Contact:</b>	Usually a tingling burning sensation on infected area which can cause severe skin burns if left untreated.
<b>Eye Contact:</b>	Acutely irritant and corrosive on eyes which will cause severe eye damage.

## 12. ECOLOGICAL INFORMATION

Toxic to aquatic life and Harmful to terrestrial vertebrates prevent spillage into waterways.

HSNO Class:

**9.1D** (Toxic to aquatic life. May cause long lasting harmful effects to aquatic life)

**9.3C** (Harmful to terrestrial vertebrates)

# CHLOR-ALKALI

## 13. DISPOSAL CONSIDERATIONS

Return unwanted product to the manufacturer for disposal or contact the Regional Council for local chemical disposal area details.  
Empty container may contain product traces rinse container well while wearing appropriate safety equipment, remove labels and dispose in Landfill or Incinerator.

## 14. TRANSPORT INFORMATION

UN Number	3266
Proper Shipping Name	Corrosive Liquid, Basic, Inorganic, NOS
DG Class	8
Packing Group	II
Special Precautions	Do not Ship with class 8 Acids
HAZCHEM Code	2X

## 15. REGULATORY INFORMATION

ERMA Registration Number: HSR002526

NZFSA Approved For Use In Farm Dairies

HSNO Classification:

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HSNO Group Standard Name: Cleaning Products (corrosive) Group Standard

Complies with schedules 1 & 2 of the group standard

Approved Handler: Not Required

Labelling in accordance with: HSNO regulations:

Class 6.1D



Class 8 Corrosive



UN 3266 Contains: 250 g/l  
Sodium Hydroxide

# CHLOR-ALKALI

## 16. OTHER INFORMATION

### Version 2.0

**Issue Date:** 16-09-2008

**Review Date:** 16-09-2008

### Glossary

**ERMA** – The Environmental Risk Management Authority of New Zealand

**HSNO** – Hazardous Substances and New Organisms Act 1996

**pH** – Measure of how acidic or alkaline a material is using a 1-14 scale. pH 1 is strongly acidic and pH14 is strongly alkaline.

**TWA** – Time Weighted Average. The average concentration of a chemical in air over the total exposure time – usually an 8-hour workday

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The information on this Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described on the label is the responsibility of the user.