SAFETY DATA SHEET

Chlorwash

Preparation Date: 09-Sep-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	Chlorwash
Item#:	NZ21751
Recommended use	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	0800 764 766 (National Poison Centre) 0800 243 622 CHEMCALL

2. HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture according to GHS

HSNO Classifications

6.1E Substances that have relatively low acute toxicity
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
9.1A Substances that are very ecotoxic in the aquatic environment

2.2. Label Elements

Hazard Pictogram(s)

Signal word

DANGER

Hazard Statements

H290 - May be corrosive to metals
H303 - May be harmful if swallowed
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H400 - Very toxic to aquatic life

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
P234 - Keep only in original container
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P264 - Wash hands thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P304 + P312 - IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
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.
P363 - Wash contaminated clothing before reuse
P390 - Absorb spillage to prevent material damage
P391 - Collect spillage
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, sodium hypochlorite

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight %
Sodium hydroxide	1310-73-2	10 - 30%
Sodium hypochlorite	7681-52-9	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 Immediate medical attention is required
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Keep eye wide open while rinsing

Skin contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

Inhalation Move to fresh air
If not breathing, give artificial respiration
If breathing is difficult, give oxygen
Call a physician or Poison Control Center immediately

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. 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 No information available.

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. 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. Keep away from metals. Corrosive to 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	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	Clear Light yellow
Physical state	Liquid
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
Water Solubility	Soluble in water
Solubility	No information available
Solubility in other solvents	No data available
Specific Gravity	1.26

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 Corrosive. Causes serious eye damage.
Skin contact Corrosive. Causes severe burns.
Ingestion Harmful if swallowed.

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	2000 mg/Kg	1350 mg/kg	
Sodium hypochlorite	= 8200 mg/kg (Rat)	10000 mg/kg (Rabbit)	

Irritation No information available
Corrosivity Corrosive. The product causes burns of eyes, skin and mucous membranes.
Sensitization No information available.
Mutagenic effects No information available.
Carcinogenicity There are no known carcinogenic chemicals in this product.

Chemical name	IARC
Sodium hypochlorite	Group 3

Reproductive Effects No information available.
Developmental Effects No information available.
STOT - single exposure No information available
STOT - repeated exposure No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects Very toxic to aquatic life

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Sodium hydroxide		LC50 (96 h) 72 mg/L		
Sodium hypochlorite	0.095: 24 h Skeletonema costatum mg/L EC50	LC50 (96 h) 0.06 mg/l		2.1: 96 h Daphnia magna mg/L EC50 0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static

Persistence and degradability No information available

Bioaccumulation/Accumulation No information available.

Mobility No information available

Biodegradation Some ingredients of this material have some potential to biodegrade, but most ingredients have a limited potential to biodegrade or have not been tested.

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.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

UN-No	3266
Proper Shipping Name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide, Sodium hypochlorite)
Hazard Class	8
Packing Group	III
Hazchem Code	2X

15. REGULATORY INFORMATION

ERMA NZ Registration Number HSR002526

ERMA Group Standard Cleaning Products - (Corrosive) Group Standard 2006

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HSNO Conditions
Hazardous Substances Location trigger quantiy: N/A
Approved Handler trigger quantiy: N/A
Secondary containment trigger quantity: 1000L or 1000kg
Signage trigger quantity: 1000L or 1000kg
Response Plan trigger quantity: 1000L or 1000kg

ERMA Reference ERMA User Guide to the HSNO Controls, which links to the Hazardous Substances Regulations 2001

16. OTHER INFORMATION

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Reason for revision Classification according to GHS

References
NZS 5433:2007 Transport of Dangerous Goods on Land
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
- Dispoal 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
Land Transport (Dangerous Goods) Rule 45001:2005
Hazardous Substances Regulations 2001:
- Minimum Degrees of Hazard
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Disclaimer
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End of SDS