SAFETY DATA SHEET

Chlorwash

Preparation Date: 09-Sep-2009
Revision Number: *3.1*
Revision Date: *13-Sep-2024*
Date of Next Revision: *12-Sep-2029*

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, 82 Greenwood street, Hamilton New Zealand
Telephone Number	(07) 849-6020 (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

Acute toxicity - Oral - Category 4
Skin corrosion/irritation - Category 1C
Serious eye damage/eye irritation - Category 1
Chronic aquatic toxicity - Category 2
Corrosive to metals - Category 1

2.2. Label Elements

Hazard Pictogram(s)

Signal word DANGER

Hazard Statements

H290 - May be corrosive to metals
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements

P102 - Keep out of reach of children
P234 - Keep only in original packaging
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
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P301 + P317 - IF SWALLOWED: Get medical help
P302 + P361 + P354 - IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P354 + P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P316 - Get emergency medical help immediately
P330 - Rinse mouth
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
Information to Healthcare personnel/doctor: The eyes should also be rinsed repeatedly on the way to the doctor.

Skin contact

Wash off immediately with plenty of water for at least 15 minutes
Get medical attention immediately
Remove and wash contaminated clothing before re-use
Show this safety data sheet to the doctor in attendance.

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. Store in original container. 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	WES (New Zealand)
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
Kinematic viscosity	
Corrosive to metals	Corrosive to metals Category 1

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 No information available.
Skin contact No information available.
Ingestion Harmful if swallowed.

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	325 mg/kg	1350 mg/kg	
Sodium hypochlorite	= 8.91 g/kg (Rat)	10000 mg/kg (Rabbit)	> 10.5 mg/L (Rat) 1 h

Irritation No information available
Corrosivity Corrosive. Causes skin and eye burns. Causes serious eye damage.
Sensitization No information available.
Mutagenic effects No information available.
Carcinogenicity There are no known carcinogenic chemicals in this product.

Chemical name	Sodium hypochlorite
IARC	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 Toxic to aquatic life with long lasting effects

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Sodium hydroxide		LC 50 (96 h) 45.4 mg/l (Oncorhynchus mykiss)		EC50 (48h): 40.4 mg/l (Ceriodaphnia dubia)
Sodium hypochlorite		LC50 (96 h) 0.06 mg/l		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

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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References
- Hazardous Substances (Hazardous Classification) Notice 2020
- Hazardous substances (Labelling) Notice 2017
- Hazardous Substances (Safety Data Sheets) Notice 2017
- GHS8
- European Agreement concerning the International Carriage of Dangerous Goods by Road
- New Zealand Workplace Exposure Standards (WES)
- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans
- Chemical Classification and Information Database (CCID)

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End of SDS