SAFETY DATA SHEET

Product Name LOTUS AUTOMATIC DISH & GLASS WASHER DETERGENT

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name
Address

Dowco Associates
Address

62 Riverbank Road, Otaki

Telephone +64 6 364 5767 Fax +64 6 364 5768 Emergency 0800 243 622

Synonym(s) 5LT & 20LT

Use(s) COMMERCIAL AUTOMATIC DISHWASHER & GLASS MACHINE DETERGENT

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO HAZARDOUS SUBSTANCES [CLASSIFICATION] REGULATIONS 2001

GHS CLASSIFICATION

Skin Corrosion/Irritation Category 1B
Eye Corrosion/Irritation Category 1
Corrosive to Metals Category 1

Hazardous to Terrestrial Vertebrates

Signal Word: DANGER

Hazard Codes

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H433 Harmful to terrestrial vertebrates.

Prevention Codes

P102 Keep out of reach of children.
P103 Read label before use.
P234 Keep only in original container

P234 Keep only in original container. P260 Do not breathe mist/spray.

P264 Wash hands and face thoroughly with soap and water after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

Response Codes

P101 If medical advice is needed, have product container or label at hand.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304+P340 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

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 or doctor/physician.

P321 Specific treatment (see supplemental first aid information on the label).

P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

Storage Codes

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

Disposal Codes

P501 Disposal of content/container should be made in accordance with all applicable local, regional, and

national laws and regulations.

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3. COMPOSITION INFORMATION

Ingredient	CAS Number	Content
Sodium Hydroxide	1310-73-2	10 – 30%
Tetrasodium EDTA Tetrahydrate	13235-36-4	< 10%
Nitrilotrimethylenetris(phosphonic acid)	6419-19-8	< 5%
Ingredients determined to be non-hazardous	-	Balance

4. FIRST AID MEASURES

Eye Rinse with copious amounts of water for at least 15 minutes including under eyelids. Remove contact

lenses, if present and easy to do. Continue rinsing. Seek medical assistance immediately.

Skin If skin or hair contact occurs, remove contaminated clothing and flood skin and hair with running water for

at least 15 minutes. Seek medical assistance.

Ingestion DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical assistance immediately.

Inhalation Remove patient to fresh air. If breathing becomes difficult get medical attention. Apply artificial respiration if

not breathing.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazard Type Non-flammable

Extinguishing Media

Dry chemical powder, foam, fog sprays and water jets.

Fire/Explosion Hazard

Thermal decomposition may produce toxic gases. Exhibits violent reactions with oxidising materials.

Precautions for firefighters

Self-contained breathing apparatus. Safety boots, Chemical resistant overalls, gloves, helmet, and eye

protection.

6. ACCIDENTAL RELEASE MEASURES

Minor Spills Wear protective equipment to prevent skin, eye, and respiratory exposure. Contain using sand, earth, or

vermiculite.

Major Spills Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this

occurs contact your regional council immediately).

Use absorbent (soil, sand, or other inert material). Rags are not recommended for the clean-up of spills, as

they may create fire or environmental hazards.

Collect and seal absorbent in properly labelled containers or drums for disposal. If contamination of crops,

sewers or waterways has occurred advise local emergency services.

Mop up and collect recoverable material into labelled into labelled containers for recycling or salvage.

Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose in

accordance with all regulations.

7. HANDLING AND STORAGE

Handling Keep out of reach of children. Avoid contact with skin, eyes, and inhalation of fumes. Use personal

protective equipment as required. Eating, drinking, and smoking in work areas is prohibited.

Storage Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs and

incompatible materials.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Substance	CAS Number	TWA (Ceiling)
Sodium Hydroxide	1310-73-2	2 mg/m ³

Engineering Controls

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required

in specific circumstances.

Personal Protective Equipment

Eyes Protect eyes with goggles, safety glasses or full-face mask. Avoid wearing contact lenses.

Skin Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Remove

protective clothing and wash exposed areas with soap and water prior to eating, drinking, or using the

toilet.

Respiratory Use a P3 level respirator that complies with AS/NZS 1715 when operating in enclosed space or where

there is a risk of vapour generation during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Upper explosive limit	Not determined
Appearance	Colourless	Lower explosive limit	Not determined
Odour	Not detectable	Vapour pressure	Not determined
Odour threshold	Not determined	Vapour density	Not determined
Relative density	1.0 g/mL (approx.)	Solubility in water	Soluble
pH as supplied	11.0 – 12.0	Partition coefficient n-octanol/water	Not determined
Freezing point	Not determined	Autoignition temperature	Not determined
Boiling point	100°C (approx.)	Decomposition temperature	Not determined
Flash point	Not determined	Kinematic Viscosity	Not determined
Flammability	Not determined		

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal storage conditions.

Incompatible Materials

Strong oxidising agents. Contact with metals such as aluminium, magnesium, tin and zinc can cause

formation of flammable hydrogen gas.

Hazardous Decomposition Products Carbon oxides (CO, CO₂), Nitrogen oxides (NO, N₂O, NO₂)

Hazardous Polymerisation

Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Summary No specific data is available for this product.

Toxicological data has been evaluated/calculated for the mixture. The product is considered to have the

following potential health effects.

Contact with eyes or skin may result in serious damage/injury.

Supporting Data Acute Oral

Ingestion is not thought to produce harmful toxic effects. The mixture presents a

significant risk of burns to the oesophagus and upper respiratory tract due to the pH of

the formulation.

Dermal Skin contact is not thought to have harmful toxic effects.

InhaledThe mixture is not though to be toxic through inhalation. The mixture presents a risk of

irritation to the upper respiratory tract.

Eye The mixture is considered an eye corrosive based on the summation method.

Skin The mixture is considered a skin corrosive based on the summation method.

LOTUS AUTOMATIC DISH & GLASS WASHER DETERGENT **Product Name**

Chronic Sensitisation No data

> Mutagenicity No data Carcinogenicity No data Reproductive/development No data **Systemic** No data Aggravation of existing None known

conditions

12. ECOLOGICAL INFORMATION

No specific data is available for this product. Summary

Aquatic No data No data **Bioaccumulation** Degradability No data Soil No data

Terrestrial vertebrate

The mixture is considered to be ecotoxic to terrestrial vertebrates based on the summation method.

Terrestrial No data

invertebrate

13. DISPOSAL CONSIDERATIONS

Rinse containers well with water before disposal. Preferably rec-cycle container, otherwise send to an authorized landfill or similar in accordance with all relevant, local, regional, and national regulations.

14. TRANSPORT INFORMATION

Road & Rail Classified as dangerous goods by the criteria of NZS5433:2012 - Transport of Dangerous Goods on Land.

Transport

Sea Transport Classified as dangerous good under the IMDG transport regulations.

Air Transport Classified as dangerous goods under the IATA/ICAO transport regulations.



UN No 1824

Proper Shipping SODIUM HYDROXIDE SOLUTION

Name **DG Class** 8 **Packing Group** П **Hazchem Code** 2R

15. REGULATORY INFORMATION

NZ EPA Approval HSR002526 - Cleaning Products (Corrosive) Group Standard 2020

Code

NZIoC All components are listed on the New Zealand Inventory of Chemicals.

Trigger quantities for this substance

Trigger Quantity

Certified Handler Not required.

Location Certificate 250L

Tracking Trigger Quantities Not required.

Signage Trigger Quantities 250L **Emergency Response Plan** 1,000L

Trigger Quantities

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16. OTHER INFORMATION

SDS Version Number 1.0

SDS Issue Date 22 July 2021

SDS Review Date 22 July 2026

SDS Regulation The content and format of this SDS is in accordance with HSNO COP 8-1 09-0-6: HSNO Approved Code

of Practice - Preparation of Safety Data Sheets.

Disclaimer This document is compiled based on current knowledge as provided by the suppliers or information

obtained from third party sources relating to the hazard classification, safety, and handling precautions for this product. Dowco Associates Ltd has taken all due care to include accurate and up-to-date information in this document and does not provide any warranty as to accuracy or completeness. The information

herein is given in good faith but no warranty, express or implied is made.

Abbreviations:

AS/NZS	Joint Australian-New Zealand standard
CAS	Chemical Abstracts Service (Registry Number)
EPA	Environmental Protection Authority
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Regulations
NZIoC	New Zealand Inventory of Chemicals
NZS	New Zealand Standard
TWA	Time Weighted Average