SAFETY DATA SHEET

Product Name **LOTUS TOILET CLEANER**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name	**Dowco Associates**
Address	62 Riverbank Road, Otaki
Telephone	+64 6 364 5767
Fax	+64 6 364 5768
Emergency	0800 243 622
Synonym(s)	5L
Use(s)	TOILET BOWL CLEANER

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO HAZARDOUS SUBSTANCES [MINIMUM DEGREES OF HAZARD] REGULATIONS 2001 – REPRINTED 2017

GHS CLASSIFICATION

Serious Eye Damage	Category 1
Skin Sensitisation	Category 1A



Signal Word: **DANGER**

Hazard Codes

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Prevention Codes

P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing mist or spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves and eye protection.

Response Codes

P101	If medical advice is needed, have product container or label at hand.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
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 CENTRE.
P321	Specific treatment: See additional information on this label.
P333+P313	If skin irritation or rash occurs: Get medical advice.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Codes

None

Disposal Codes

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

3. COMPOSITION INFORMATION

Ingredient	CAS Number	Content
Citric Acid	77-92-9	<10%
Fragrance	Proprietary	<1%
Ingredients determined to be non-hazardous	-	Balance

4. FIRST AID MEASURES

Eye	Rinse with copious amounts of water including under eyelids continuously until advised to stop. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical assistance if irritation occurs.
Skin	If skin or hair contact occurs, remove contaminated clothing and flood skin and hair with running water continuously for 10 minutes. If rash or irritation occurs seek medical assistance.
Ingestion	DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical assistance.
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. May evolve toxic gases if strongly heated.
Extinguishing Media	Water fog, fine spray dry powder or carbon dioxide.
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 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 and eyes. 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	No exposure limits have been established by Worksafe New Zealand for this product.
Engineering Controls	General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. Provide eyewash station and safety shower.

Personal Protective Equipment

Eyes	Protect eyes with goggles or safety glasses that comply with AS/NZS 1336:2014
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. Ensure all PPE complies with AS/NZS 2161.2:2020, AS/NZS 2210.3:2009 & AS/NZS 4501.1:2008
Respiratory	Use a P3 level respirator that complies with AS/NZS 1715:2009 when operating in enclosed space or where there is a risk of vapour generation during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Clear Liquid	**Upper explosive limit**	No data available
Appearance	Blue	**Lower explosive limit**	No data available
Odour	Characteristic	**Vapour pressure**	No data available
Odour threshold	No data available	**Vapour density**	No data available
Specific Gravity	1.0 g/mL (approx.)	**Solubility in water**	Soluble
pH as supplied	2.1 – 3.5	**Partition coefficient n-octanol/water**	No data available
Freezing point	No data available	**Autoignition temperature**	No data available
Boiling point	No data available	**Decomposition temperature**	No data available
Flash point	No data available	**Kinematic Viscosity**	No data available
Flammability	No data available		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal storage conditions.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	Carbon oxides (CO, CO_2), Sulphur oxides
Hazardous Polymerisation	Polymerisation 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.

Supporting Data

Acute	**Oral**	No data available
	Dermal	No data available
	Inhaled	No data available
	Eye	The mixture is considered to be damaging to the eyes based on the quantities of components in the mixture which have a damage classification.
	Skin	No data available.
Chronic	**Sensitisation**	The mixture is considered to be sensitising to the skin based on the quantities of components in the mixture which have sensitisation classifications.
	Mutagenicity	No data available
	Carcinogenicity	No data available
	Reproductive/development	No data available
	Systemic	No data available
	Aggravation of existing conditions	None known

12. ECOLOGICAL INFORMATION

Summary No specific data is available for this product.

Aquatic	No data available
Bioaccumulation	Not expected to bio-accumulate.
Degradability	Expected to be rapidly degradable.
Soil	No data available
Terrestrial vertebrate	No data available
Terrestrial invertebrate	No data available

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Road & Rail Transport	Not classified as dangerous goods by the criteria of NZS5433:2020 – Transport of Dangerous Goods on Land.
Sea Transport	Not classified as dangerous goods under the IMDG transport regulations.
Air Transport	Not classified as dangerous goods under the IATA/ICAO transport regulations.

15. REGULATORY INFORMATION

NZ EPA Approval Code	HSR002530 – Cleaning Products (Subsidiary) Group Standard 2020
NZIoC	All components are listed on the New Zealand Inventory of Chemicals.
MPI Approval Code	

Trigger quantities for this substance

	Trigger Quantity
Certified Handler	Not required.
Location Certificate	Not required.
Tracking Trigger Quantities	Not required.
Signage Trigger Quantities	1,000L (Serious Eye Damage 1)
Emergency Response Plan Trigger Quantities	1,000L (Skin Sensitisation 1A)

16. OTHER INFORMATION

SDS Version Number	1.0
SDS Issue Date	25th March 2024
SDS Review Date	25th March 2029
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