

SAFETY DATA SHEET

Product Name LOTUS PINE DISINFECTANT

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name **Dowco Associates**
Address 62 Riverbank Road, Otaki
Telephone +64 6 364 5767

Emergency 0800 764 766

Synonym(s) 5L, 20L

Use(s) DISINFECTANT – ANTISEPTIC CLEANER

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO HAZARDOUS SUBSTANCES and New Organisms Act (HSNO, Approval HSR002530 Cleaning Products (Subsidiary Hazard) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

GHS 7 Classes

Hazard Statements

Skin irritant category 2

H315 - Causes skin irritation.

Eye irritant category 2

H319 - Causes serious eye irritation.

SYMBOLS

WARNING



Other Classifications: There are no other classifications that are known to apply

Precautionary Statements

Prevention

P103 - Read label before use.
P264 - Wash hands thoroughly after handling
P280 - Wear protective gloves and eye protection.

Response

P302+P352 - IF ON SKIN: Wash with plenty of soap and water P332+P313 - If skin irritation occurs: Get Medical advice/attention. P362 - Take off contaminated clothing and wash before re-use. P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

Storage

No storage statement.

Disposal

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

3. COMPOSITION INFORMATION ON INGREDIENTS

COMPONENT	CAS/Identification	Conc (%)
Water	7732-18-5	>60%
Quaternary ammonium compounds	proprietary	<1% - < 3%
Surfactant	127087-87-0	1-10%
Fragrance	proprietary	<0.1%
Dyes	proprietary	<0.1%

This is a commercial product whose exact ratio of components may vary slightly. Trace quantities of impurities are also likely.

Product Name LOTUS PINE DISINFECTANT**4. FIRST AID MEASURES**

Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical assistance if eye irritation persists: Get medical advice/attention.
Skin contact	IF ON SKIN: Flush immediately with large amounts of water. If skin irritation occurs: Get medical advice/attention.
Swallowed	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Give a glass of water to drink.
Inhaled	Generally, inhalation of vapours is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.
Advice to Doctor	Treat symptomatically
General Information	If medical advice is needed, have product container or label at hand. You should call the National poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) 24 hr emergency service).

5. FIRE FIGHTING MEASURES

Fire and explosion hazards	There are no specific risks for fire/explosion for this chemical. It is not classed as flammable. Self-contained breathing apparatus. Safety boots, Chemical resistant overalls, gloves, helmet, and eye protection.
Suitable extinguishing substances	Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.
Unsuitable extinguishing substances	Unknown
Products of combustion	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.
Protective equipment	No special measures are required.
Hazchem code	NA

6. ACCIDENTAL RELEASE MEASURES

Containment	In all cases design storage to prevent discharge to storm water. If a significant spill occurs:
Emergency procedures	Stop leak if safe/necessary; Isolate area. Collect spill - see below; Transfer to container for disposal. Dispose of according to guidelines below (Section 13).
Clean-up method	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 hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
Disposal	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accordance with all regulations.
Precautions	Wear skin and eye protection. Spill may be slippery.

7. HANDLING AND STORAGE

Handling	Keep exposure to a minimum and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.
Storage	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Substance	CAS Number	TWA (Ceiling)
-	-	-

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 1337.
Skin	Protective gloves are recommended. Nitrile rubber gloves are recommended. Protective gloves or suitable resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in accordance with AS/NS2210.1.
Respiratory	Respirator is not required under normal use. Ensure adequate natural ventilation. If product is being used in confined conditions, the use of a mask or respirator may be preferred.

Product Name LOTUS PINE DISINFECTANT**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	Liquid	Upper explosive limit	No data available
Appearance	Green clear liquid	Lower explosive limit	No data available
Odour	Pine scent	Vapour pressure	No data available
Odour threshold	No data available	Vapour density	No data available
Specific Gravity	1.0 g/cm3 (approx.)	Solubility in water	miscible in water
pH as supplied	6.5 – 7.5	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
Conditions to be avoided	Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.
Incompatible groups	strong acids, oxidisers (e.g. bleach)
Hazardous Polymerisation	Carbon oxides (CO, CO2), Nitrogen oxides, Hydrogen Chloride
	Polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

Summary	IF IN EYES: direct contact with the concentrate may cause eye irritation. IF ON SKIN: direct contact with the concentrate may result in skin irritation. CHRONIC TOXICITY: no effects are known.
Supporting Data	Using LD ₅₀ 's for ingredients, the Acute Toxicity Estimate (ATE) (oral) for the mixture is >2,000mg/kg. Data considered includes: Quaternary ammonium compounds 344mg/kg (rat), surfactant 1310mg/kg (rat).
Acute Oral	
Aspiration	EDIT: This mixture is not considered an aspiration hazard.
Dermal	Using LD ₅₀ 's for ingredients, the Acute Toxicity Estimate (ATE) (dermal) for the mixture is >2,000 mg/kg. Data considered includes: Quaternary ammonium compounds 3340mg/kg (rat).
Inhaled	Using LD ₅₀ 's for ingredients, the Acute Toxicity Estimate (ATE) (inhalation) for the mixture is >5mg/L/4h
Eye	The mixture is considered to be an eye irritant, because some of the ingredients Quaternary ammonium compounds and the surfactant present are considered eye irritants in more concentrated form.
Skin	The mixture is considered to be a skin irritant, because some of the ingredients Quaternary ammonium compounds and the surfactant present are considered skin irritants in more concentrated form.
Chronic Sensitisation	No ingredient present at concentrations > 0.1% is considered a sensitizer.
Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a carcinogen.
Reproductive/developmental	No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.
Systemic	No ingredient present at concentrations > 0.1% is considered a target organ toxicant.
Aggravation of existing conditions	None known

12. ECOLOGICAL INFORMATION

Summary	This mixture is not classed as ecotoxic under GHS 7. However in all cases prevent run-off to drains, sewers and waterways.
Supporting Data	
Aquatic	CUUsing EC ₅₀ 's for ingredients, the calculated EC ₅₀ for the mixture is > 100 mg/L. Data considered includes: Quaternary ammonium compounds LC ₅₀ for freshwater fish: 515 mg/L, EC ₅₀ / LC ₅₀ for freshwater invertebrates. 16 mg/L., EC50 for freshwater algae: 30 mg/L
Bioaccumulation	This mixture is not considered bioaccumulative.
Degradability	Quaternary ammonium compounds is considered biodegradable.
Soil	No evidence of soil toxicity.
Terrestrial vertebrate	No evidence of ecotoxicity towards terrestrial vertebrates.
Terrestrial invertebrate	No evidence of ecotoxicity towards terrestrial invertebrates.
Biocidal	No data

Product Name LOTUS PINE DISINFECTANT

13. DISPOSAL CONSIDERATIONS

Restrictions	There are no product specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
Disposal method	Disposal of this product must comply with the Hazardous substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
Contaminated packaging	Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging.

14. TRANSPORT INFORMATION

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

There are no specific restrictions for this product (not a dangerous good).

UN number:	NA	Proper shipping name:	NA
Class(es)	NA	Packing group:	NA
Precautions:	NA	Hazchem code:	NA

IMDG

UN number:	NA	Proper shipping name:	Not regulated
Class(es)	NA	Packing group:	NA
Precautions:	NA	EmS	NA

IATA

UN number:	NA	Proper shipping name:	Not regulated
Class(es)	NA	Packing group:	NA
Precautions:	NA	ERG Guide	NA

15. REGULATORY INFORMATION

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002530, Cleaning Products (Subsidiary Hazard) Group Standard 2020. All ingredients appear on the New Zealand Inventory of Chemicals NZIoC.

Specific Controls

Key workplace requirements are:

SDS	To be available within 10 minutes in workplaces storing any quantity.
Inventory	An inventory of all hazardous substances must be prepared and maintained.
Packaging	All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied.
Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017.
Emergency plan	Not required.
Certified handler	Not required.
Tracking	Not required.
Bunding & secondary containment	Not required.
Signage	Not required.
Location compliance certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and regulations, the Health and Safety at Work Act 2015 and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. OTHER INFORMATION

Abbreviations

Approval Code	Approval HSR002530, Cleaning Products (Subsidiary Hazard) Group Standard 2020 Controls, EPA.
CAS Number	www.epa.govt.nz.
EC₅₀	Unique Chemical Abstracts Service Registry Number Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test population e.g. daphnia, fish species.
EPA	Environmental Protection Authority (New Zealand)
GHS	Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition, 2017, published by the United Nations.
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters.

Product Name **LOTUS PINE DISINFECTANT**
Abbreviations:

HSNO	Hazardous Substances and New Organisms (Act and Regulations)
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
LD₅₀	Lethal Dose 50% - dose which is fatal to 50% of a test population (usually rats).
LC₅₀	Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population (usually rats).
NZIoC	New Zealand Inventory of Chemicals
STEL	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded.
STOT RE	System Target Organ Toxicity - Repeated Exposure
STOT SE	System Target Organ Toxicity - Single Exposure
TWA	Time weighted Average - generally referred to WES averaged over typical work day (usually 8 hours).
UEL	Upper Explosive Limit
UN Number	United Nations Number
WES	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.

References

Data	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
Controls	EPA notices, www.epa.govt.nz , Health and Safety at Work (Hazardous Substances) Regulations 2017, www.legislation.govt.nz
WES	The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site - www.worksafe.govt.nz .
Other References:	Suppliers SDS

Review

Date	Reason for review
September 2024	Not applicable - New SDS

Disclaimer

This SDS was prepared by Dowco Associates Ltd and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS 7 classifications for this SDS have been estimated based on general information from the supplier (e.g. hazard, toxicological).