

PRODUCT: ALGAEBAN

ECOCLEAN UTILITY AGENCIES PTY LTD

Section 1 – Identification

Product Identifier	
Product name	ALGAEBAN
Chemical name	Not Applicable
Synonyms	Product code: UBALGAEBAN
Proper shipping name	Not Applicable
Chemical formula	Not Applicable
Other means of identification	Not Applicable
CAS number	Not Applicable

Recommended use of the chemical and restrictions on use	
Relevant identified uses	Moss and algae control.

Details of the manufacturer or importer	
Registered company name	ECOCLEAN UTILITY AGENCIES
Address	26 NOTAR DRIVE ORMEAU QLD 4208
ABN	72 135 037 160
Telephone	07 5549 3666
email	info@ecocleanavantichem.com.au
Emergency phone number	Poisons Information Centre: Phone 13 11 26

Emergency Telephone Number	
Association / Organisation	Poisons Information Centre
Emergency telephone number	13 11 26
Other emergency telephone	In an amount of the part of the parties and ambulance
numbers	In an emergency telephone 000, for fire, police and ambulance.

Section 2 – Hazard(s) Identification

Classification of the substance or mixture	
Poisons Schedule	S5 (QUATERNARY AMMONIUM COMPOUNDS >5%)
GHS Classification	Skin Corrosion – Category 2
	Eye Damage - Category 1
	Acute Aquatic Toxicity - Category 2

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Label elements	
GHS label pictograms	

Signal word DANGER

Hazard statement(s)	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H401	Toxic to aquatic life.

Precautionary statement(s): General	
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.

Precautionary statement(s): Prevention	
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection/face protection.

Precautionary statement(s): 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 reuse.
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 POSION CENTRE or doctor/physician.
P321	Specific treatment (see First Aid Measures on Safety Data Sheet)

Precautionary statement(s): Storage

Precautionary statement(s): Disposal

Note	
IMPORTANT	This SDS and the Hazard Classifications contained therein, only apply to the product in its
	concentrated form, as supplied.
	When diluted to 1:5 or greater with water, they no longer apply.

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However, good hygiene and housekeeping practices should be adhered to.

Section 3 – Composition and Information on Ingredients

Ingredient	CAS Name	Proportion
Quaternary ammonium compounds	63449-41-2	< 10 % w/w
Alcohol ethoxylate	68439-50-9	< 10% w/w
Non-Hazardous ingredients (water softeners, dyes)	Mixture	< 10% w/w
Water	7732-18-5	>60%

NOTE:

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances", or have been found NOT to meet the criteria of a dangerous substance as defined in the GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) , 4th edition United Nations 2011. Listed ingredients may be below the cut-off concentrations for classification as hazardous, but are listed for information purposes and for additive effects.

Section 4 – First Aid Measures

Description of necessary first aid	Description of necessary first aid measures				
Eye Contact	If this product comes in contact with eyes:				
	Rinse cautiously with water for several minutes. Remove contact lenses, if present				
	and easy to do. Continue rinsing.				
	Seek medical advice.				
Skin contact	If skin contact occurs:				
	Remove / take off immediately all contaminated clothing				
	Rinse skin with water/shower				
	Wash contaminated clothing before reuse				
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing				
	 If respiratory symptoms: Immediately call POISON CENTER or doctor. 				
	Treat symptomatically.				
Ingestion	Rinse mouth.				
	Do NOT induce vomiting.				

Symptoms caused by exposure					
	•	Causes skin irritation.			
	•	Causes serious eye damage.			

Medical attention and special treatment			
	Treat symptomatically		

Section 5 – Fire Fighting Measures

Suitable extinguishing equipment / media				
	 Use an extinguishing media suitable for surrounding fires. 			

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- · Water spray or fog.
- Foam.
- Dry Chemical Powder
- BCF (where allowed)
- Carbon dioxide

Special hazards arising from the chemical

Fire incompatibility

No known incompatibility.

Special protective equipment and precautions for fire fighters					
Fire Fighting	 Alert Fire Brigade and tell them the location and the nature of the hazard. 				
	 Wear full body protective clothing with breathing apparatus. 				
	Prevent spillage from entering drains or watercourse.				
	Keep away from hot containers.				
	 Cool hot containers with water spray. 				
Fire/Explosion Hazard	Non-combustible				
	 Not considered to be a considerable fire risk. 				
	 Containers may explode on heating. 				
	May emit acid smoke.				
	May emit corrosive fumes.				
	 Decomposition may product toxic fumes of decomposition. 				

Section 6 - Accidental Release Measures

Occitor 0 - Accidental release measures				
Personal precautions, protective	equipment and emergency procedures			
Minor spills	Clean up spills immediately.			
	 Avoid contact with skin and eyes. 			
	Use Personal Protective Equipment.			
	 Contain and absorb spill with vermiculite or other suitable material. 			
	Sweep or wipe up.			
	Place in a suitable container for disposal.			
Major spills	Clear area of personnel.			
	Use Personal Protective Equipment.			
	 Prevent spill from entering drains or watercourse. 			
	 If contamination occurs contact emergency services. 			
	 Contain and absorb spill with vermiculite or other suitable material. 			
	 Label collected material for disposal. 			
	 Decontaminate if necessary (see section 13). 			
	 Launder and clean all protective equipment prior to being re-used. 			

Environmental precautions

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- Use appropriate containment to avoid environmental contamination.
- Prevent from spreading and entering waterway using sand, earth or other appropriate barriers.
- DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT.
- Inform local authorities if this occurs.

Methods and materials for containment and cleaning up

Personal protective equipment advice is contained in Section 8 of the SDS

Section 7 – Handling and Storage

Precautions for safe handling				
Safe handling	Wear prescribed protective clothing.			
	 Do NOT eat, drink or smoke when handling. 			
	Wash hands after use.			
	 Keep containers closed tightly when not in use. 			
	 Store in accordance to manufacturers instructions. 			
Other information	Store in original containers.			
	 Store in a cool, dry, well ventilated area out of direct sunlight. 			

Conditions for safe storage, including any incompatibilities				
Suitable container	Not to be transported in unlined metal drums.			
	 Lined metal can, lined metal pail/can. 			
	Plastic pail.			
	Polyliner drum.			
	Packaging as recommended by manufacturer.			
Storage incompatibility	No known incompatibilities.			

Section 8 – Exposure controls and personal protection

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Co	Control parameters					
	Occupational Exposure Limits	Continued in the Date and Engagement in the bolom				
	(OEL)	See Ingredients Data and Emergency Limits below.				

Ingredients data						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
not available	not available	not available	not available	not available	not available	not available

Emergency limits					
Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3	

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not available		

IDLH data			
Ingredient	Original IDLH	Revised IDLH	
Not available	Not available	Not available	

Exposure controls			
Appropriate engineering	Use in a well ventilated area.		
controls	 General exhaust is adequate under normal operating conditions. 		
Personal protection			
	Use good occupational work practice.		
	 The use of protective clothing and equipment depends upon the degree and nature of exposure. 		
Eye and face protection	The use of safety glasses with side shield protection, goggles or face shield is		
	recommended to handle in quantity, cleaning up spills, decanting, etc.		
	Contact lenses pose a special hazard; soft lenses may absorb irritants and all		
	lenses concentrate them.		
Skin protection	See hand protection below		
Hand protection	Wear chemical protective gloves, e.g. PVC for applications with the concentrated		
	product in quantity, cleaning up spills, decanting, or extended contact.		
Body protection	Wear safety footwear.		
	Work clothes.		
Respiratory protection	Generally not required to handle the product as per label directions.		
Other protection	Ensure there is access to eye washes and safety showers.		
Thermal hazards	Not Available		

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties Appearance Blue non-viscous liquid.

Physical state	Liquid	Relative density	1.02 @ 25°C
		(water=1)	
Odour	Faint	Partition coefficient n-	Not available
		octanol/water	
Odour threshold	Not applicable	Auto-ignition	Not flammable
		temperature (°C)	
pH (as supplied)	9.5 – 10.5	Decomposition	Not available
		temperature	
Melting Point / Freezing	Approximately 0 °C	Viscosity (cSt)	Not available

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Point (°C)			
Initial boiling point and	Approximately 100 °C	Molecular weight	Not available
boiling range (°C)		(g/mol)	
Flash point (°C)	not flammable	Taste	Not available
Evaporation rate	not available	Explosive properties	none
Flammability	non flammable liquid	Oxidising properties	Not available
Upper Explosive Limit	none	Surface Tension (dyn/cm	Not available
(%)		or mN/m)	
Lower Explosive Limit	none	Volatile Component	Approx. 90% v/v
(%)		(%vol)	
Vapour pressure (kPa)	Not available	Gas group	Not applicable
Solubility in water (g/L)	Miscible in all	pH as a solution (1%)	8.5 – 9.5
	proportions		
Vapour density (Air=1)	Not determined	Volatile organic	0%
		compounds (VOC)	

Section 10 – Stability and Reactivity

Reactivity	Stable at normal temperatures and pressure.	
Chemical stability	Stable at normal temperatures and pressure.	
Possibility of hazardous		
reactions	Not expected.	
Conditions to avoid	No special requirements.	
Incompatible materials	Reducing agents. Oxidizing agents.	
Hazardous decomposition	Harva harvasina anno ansis farman	
products	Upon burning, may emit fumes.	

Section 11 – Toxicological Information

Information on toxicological effects			
Inhaled	Inhalation of mists or aerosols can produce mucous membrane and respiratory irritation.		
Ingestion	This material may cause irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting, sore throat, abdominal pain and diarrhea.		
Skin contact	Concentrated solutions may cause mild irritation. Symptoms include redness, itching and swelling.		
Eyes	A severe eye irritant capable of causing severe conjunctivitis. Corneal damage may develop, with possible impairment of vision, if not promptly and adequately treated.		
Chronic	Prolonged and repeated skin contact with diluted solutions may induce dermatitis.		

Individual constituents

QUATERNARY AMMONIUM COMPOUNDS			
Acute Toxicity	Acute oral toxicity (LD50):	Carcinogenicity	Not listed as a carcinogen NTP,
	240 mg/kg [Rat].		IARC, OSHA, EPA.
Skin Irritation/Corrosion	Skin – moderate irritant	Reproductivity	No data available
	(rabbit)		

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	Eyes – severe irritant (rabbit)		
Serious Eye Damage/Irritation	YES	STOT – Single Exposure	No data available
Respiratory or Skin sensitivity	YES	STOT – Repeated Exposure	No data available
Mutagencity	No data available	Aspiration Hazard	No data available

Alcohol ethoxylate			
Acute Toxicity	LD50 Oral Rat - Male,	Carcinogenicity	Not listed as a carcinogen NTP,
	Female		IARC, OSHA, EPA.
	1200 mg/kg		
Skin Irritation/Corrosion	LD50 Dermal Rat - Male,	Reproductivity	No data available
	Female		
	>2000 mg/kg		
Serious Eye	EYE IRRITATION: Severe eye	STOT – Single Exposure	No data available
Damage/Irritation	irritant		
Respiratory or Skin	No data available	STOT – Repeated Exposure	No data available
sensitivity			
Mutagencity	No data available	Aspiration Hazard	No data available

Section 12 – Ecological Information

Aquatic Toxicity	
ALGAEBAN	Acute Aquatic Toxicity (Calculated) LC50: 5 mg/L.
(as sold)	Acute Aquatic Toxicity Cat 2 – Toxic to aquatic life. LC50 >1mg/L, but < 10mg/L.
ALGAEBAN	Acute Aquatic Toxicity (Calculated) LC50: 500 mg/L.
at use dilution 1:100 rinse) Acute Aquatic Toxicity NOT HAZARDOUS – Not harmful to aquatic life. LC50 > 100m	
Ingredients:	
Quaternary Ammonium	
Compound	(Fish) LC50 96hr 0.75mg/L
Alcohol, ethoxylated	
(non-ionic surfactant)	(Fish) LC50 96hr 1.1 – 3.0mg/L

Persistence and degradability				
Ingredient Persistence: Water/Soil		Persistance: Air		
	Readily biodegradable. >60% BOD, 28			
Quaternary Ammonium	days, Closed Bottle Test (OECD 301D).	Not Available		
Compound	>70% BOD, 28 days, Closed Bottle Test	NOT AVAIIABLE		
	(OECD 306). Biodegradable in sea water.			
	Readily biodegradable. >60% BOD, 28			
Alcohol ethoxylate	days, Closed Bottle Test (OECD 301D).	Not Available		
Aconorectioxylate	>70% BOD, 28 days, Closed Bottle Test	NOT Available		
	(OECD 306). Biodegradable in sea water.			

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Bioaccumulative potential		
Ingredient	Bioaccumulation	
Quaternary Ammonium	No bioaccumulation is expected. LOW (LogKOW = -1.38)	
Compound		
Alcohol ethoxylate	No bioaccumulation is expected.	

Mobility in soil		
Ingredient	Mobility	
Quaternary Ammonium	Due to its physico-chemical characteristics, highly mobile in the environment and will	
Compound	partition to the aquatic compartment.	
Alcohol ethoxylate	Due to its physico-chemical characteristics, highly mobile in the environment and will	
	partition to the aquatic compartment.	

Section 13 – Disposal considerations

Waste treatment methods	
Product and Packaging	Recycle wherever possible or consult manufacturer for recycling options. Consult state land
Disposal	waste authority for disposal. Bury or incinerate residue at the approved site. Recycle
•	containers if possible, or dispose of in an authorised landfill.

Section 14 – Transport Information

Labels Required	
Transport pictogram	None Allocated
Marine Pollutant	None Allocated
HAZCHEM	None Allocated

Land Transport (ADG)			
UN Number	None Allocated		
Packing Group	None Allocated		
UN Proper shipping name or			
Technical name	None Allocated		
Environmental hazard	No relevant data		
Transport hazard class(es)	None Allocated		
Transport mazara diass(es)			
Special Precautions for user	None Allocated		
	None Allocated		
Additional information	Not Available		

Section 15 – Regulatory Information

Health, safety and environment regulations	
Poisons Schedule	S5 (QUATERNARY AMMONIUM COMPOUNDS >5%)

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Section 16 - Other Information

Section 16 – Other Infor		
Issue Date	24 th June 2016	
Version Number	1.0	
Abbreviations and acronyms	ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail.	
	AICS: Australian Inventory of Chemical Substances.	
	CAS Number: Chemical Abstracts Service Registry Number.	
	GHS: Globally Harmonized System of Classification and Labelling of Chemicals	
	 HAZCHEM: An emergency action code of numbers and letters which gives information to emergency services. 	
	HSIS: Hazardous Substances Information System	
	IARC: International Agency for Research on Cancer.	
	NOHSC: National Occupational Health and Safety Commission.	
	NTP: National Toxicology Program (USA).	
	SDS: Safety Data Sheet	
	STEL: Short Term Exposure Limit.	
	SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons.	
	TWA: Time Weighted Average.	
	UN Number: United Nations Number.	
Literature references	Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice	
	(December 2011 – Safe Work Australia)	
	GHS Hazardous Chemical Information List (September 2014 – Safe Work Australia	
	Guidance on the Classification of Hazardous Chemicals under the WHS Descriptions April 2012, Safe World Australia	
	Regulations. April 2012. Safe Work Australia.	
	 Global Harmonized System of Classification and Labelling of Chemicals (GHS). Fifth revised edition. 	
	"Australian Exposure Standards"	
	List of Designated Hazardous Substances [NOHSC:10005(1999)]	
	 Australian Code For The Transport Of Dangerous Goods By Road And Rail – 7th Edition. 	
	Standard for the Uniform Scheduling of Medicines and Poisons 2015.	
	 Material Safety Data Sheets – individual raw materials – Suppliers. 	
	Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]	
	HSIS – Hazardous Substance Information System – National Worksafe Data Base.	
	LABELLING OF WORKPLACE HAZARDOUS CHEMICALS, Code of Practice, DEC 201.	
	IMPLEMENTATION OF THE GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION	
	AND LABELLING OF CHEMICALS (GHS) APRIL 2012	
Risk assessments	This SDS is a tool to communicate hazards which can assist you in creating relevant ris assessments for your workplace. There are many variables in determining whether	

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Disclaimer	particular hazard is a risk in your workplace. Keep in mind this may be influenced by such things as the amount used, frequency of use, engineering controls, effectiveness of safety training and many more considerations. This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since UTILITY ECOCLEAN cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate
	assessment can be made, the user should contact this supplier.
Copyright	This document is copyright.
End of SDS	

Document Revision History			
Revision Version #	Date	Reason for revision	
Draft		GHS format	
1.0	24.06.2016	Review by Tuwai Specialties. tuwai.wt@bigpond.com	

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