



SAFETY DATA SHEET

ISSUE DATE: March 2022

ISSUED BY: StrataGreen

PRODUCT NAME: AquaLock™ Polymeric Soil Additive - AQL500 / AQL015 / AQL200 / AQL1000

1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	AquaLock Polymeric Soil Additive
Company Name	StrataGreen
Address	5 Barrel Way Canning Vale, Western Australia 6155
Emergency Tel.	Within Australia 1300 866 367
Telephone	1300 866 367
Facsimile	1300 877 358
Recommended Use	Commercial horticultural/agricultural soil penetrant and water retention. The use of the product involves significant dilution with water (1,000:1 to 1,000:10)

2 HAZARD IDENTIFICATION

Hazard Qualification	GHS classification of the substance/mixture Not classified as Hazardous according to the Globally Harmonised System of Classification and labeling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
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3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk. Phrase
	Ingredients determined not to be hazardous		100%		

4 FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.
Skin	Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.
Eye	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and persist seek medical attention.
First Aid Facilities	Normal washroom facilities.
Advice to Doctor	Treat symptomatically

5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing media suitable for surrounding environment.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including oxides of nitrogen and sulphur, carbon monoxide and carbon dioxide.
Specific Hazards	This product is non combustible. However heating can cause expansion or decomposition leading to violent rupture of containers.
Precautions in connection with Fire	Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Wear appropriate personal protective equipment and clothing to minimise exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.
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7 HANDLING AND STORAGE

Precautions for Safe Handling

Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers closed when not in use. Ensure that storage conditions comply with applicable local and national regulations.

Recommended Materials

Plastic / original containers.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit Values

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

Not usually required. Industrial application: Use with good general ventilation. If mists are produced, local exhaust ventilation should be used.

Respiratory Protection

Not usually required. Industrial application: If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Not usually required. Industrial application: Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material such as PVC. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Not usually required. Industrial application: Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, amber or greenish liquid	Vapour Density (Air=1)	Not available
Odour	Odourless	Flash Point	Not applicable
Melting Point	Not available	Flammability	Non combustible
Boiling Point	100°C	Auto-Ignition Temperature	Not applicable
Solubility in Water	Miscible	Flammable Limits - Lower	Not applicable
Specific Gravity	1.0	Flammable Limits - Upper	Not applicable
pH Value	6.5 - 6.7		
Vapour Pressure	Not available		

10 STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling
Conditions to Avoid	Extremes of temperature
Incompatible Materials	Not available.
Hazardous Decomposition Products	Decomposition may lead to the release of toxic and/or irritating fumes including carbon monoxide and sulphur oxides.
Hazardous Polymerization	Will not occur



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11 TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral	Toxicity data: {Similar product} LOSO {rat}:> 5050 mg/kg
Acute Toxicity - Dermal	Toxicity data: {Similar product} LOSO {rat}:> 2020 mg/kg
Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Inhalation	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Skin	May be irritating to skin. The symptoms may include redness, itching and swelling. Similar product: Primary Dermal Irritation: Primary irritation score: 0.2 Toxicity category IV Slight irritant.
Eye	May be irritating to eyes. The symptoms may include redness, itching and tearing. Similar product: Primary Eye Irritation - Nonwashed Eyes: Toxicity category IV Irritation score: 0.7 Practically non-irritating. Primary Eye Irritation - Washed Eyes: Toxicity category IV Irritation score: 1.3 Practically non-irritating.
Respiratory sensitisation	Not expected to be a respiratory sensitiser.
Skin Sensitisation	Not expected to be a skin sensitiser.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Not considered to be a carcinogenic hazard.
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-single exposure	Not expected to cause toxicity to a specific target organ.
STOT-repeated exposure	Not expected to cause toxicity to a specific target organ.
Aspiration Hazard	Not expected to be an aspiration hazard.

12 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ecotoxicity	Anionic polyacrylamide has no systemic toxicity to aquatic organisms or micro-organisms.
Persistence / Degradability	Persistence and degradability Non-degraded anionic polyacrylamide has been shown to be recalcitrant to microbial degradation. This is probably related to the extremely high molecular weight which renders microbial attack very difficult. However, once the polymer has been degraded through photolysis (i.e., the action of UV light), and the macromolecule broken down into oligomers, it becomes bioavailable and is biomineralized.
Mobility	Not available
Bioaccumulative Potential	Anionic polyacrylamide has no potential to bioaccumulate, being completely soluble in water (only limited by viscosity) and insoluble in octanol.
Other Adverse Effects	Not available
Environmental Protection	Prevent this material entering waterways, drains and sewers.
Acute Toxicity - Fish	LC50 (Brachydanio rerio): 178 - 357 mg/l/96h Test F242:OECD 203/GLP/report 21/12/1995
Acute Toxicity - Daphnia	EC50 (Daphnia magna) : 212 mg/l/48h Test F243:OECD 202/GLP/report 21/12/1995
Acute Toxicity - Algae	EC50 (Chlorella vulgaris): > 1,000 mg/l/96h No Observed Effect Concentration (NOEC): 708 mg/l Test F244:OECD 201/GLP/report 21/12/1995
Acute Toxicity - Bacteria	EC10(Pseudomonas putida) : 127 mg/l/18h EC50(Pseudomonas putida): 892 mg/l/18h Test F245:OECD 301F,D1N 38412-27,ISO 7027 /GLP/report 21/12/1995

13 DISPOSAL CONSIDERATIONS

Disposal Considerations	The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.
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14 TRANSPORT INFORMATION

Transport Information	Road and Rail Transport (AOG Code): Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (AOG Code) (7th edition).
Marine Transport	(IMO/IMOG): Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMOG Code) for transport by sea.
Air Transport	(ICAO/IATA): Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
U.N. Number	None Allocated
UN proper shipping name	None Allocated
Transport hazard class(es)	None Allocated
Special Precautions for User	Not available
IMDG Marine pollutant	No
Transport in Bulk	Not available

15 REGULATORY INFORMATION

Regulatory Information	Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Poisons Schedule	Not Scheduled

13 DISPOSAL CONSIDERATIONS

Date of preparation or last revision of MSDS	SDS Reviewed: March 2022 Supersedes: March 2018
References	Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons. Australian Code for the Transport of Dangerous Goods by Road & Rail. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Workplace exposure standards for airborne contaminants, Safe work Australia. American Conference of Industrial Hygienists (ACGIH). Globally Harmonised System of classification and labelling of chemicals
Contact Person / Point	StrataGreen Phone during business hours:1300 866 367 ...End Of SDS...

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