

ECTOL PTY LTD
MATERIAL SAFETY DATA SHEET



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name **Ectol**

Supplier Name **ECTOL Pty Ltd**
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2. HAZARDS IDENTIFICATION

Use(s) PLANT STRESS BIO-PROTECTANT - FERTILISER

MSDS Date 1 MAY 2020

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	CAS No.
MARINE ALGAL EXTRACT	Not Available	Not Available
AMMONIUM LIGNOSULPHONATE	Not Available	8061-53-8
POTASSIUM PHOSPHATE DIBASIC	K ₂ HPO ₄	7758-11-4
POTASSIUM PHOSPHATE MONOBASIC	KH ₂ PO ₄	7778-77-0
PLANT EXTRACTED AMINO ACIDS*	Not Available	Not Available
TRACE ELEMENTS*	Not Available	Not Available
WATER	H ₂ O	7732-18-5

*Components not precisely identified are proprietary or not hazardous

4. FIRST AID MEASURES

- Eye** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poison Information Centre or a doctor, or for at least 15 minutes.
- Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
- Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre or a doctor.
- Ingestion** For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.
- Advice to Doctor** Treat symptomatically.

5. FIRE FIGHTING MEASURES

- Flammability** Non flammable. May evolve toxic gases (copper & sulphur oxides) when heated to decomposition.
- Fire and Explosion** Non flammable. Treat as per requirements for Surrounding Fires: Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
- Extinguishing** Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
- Hazchem Code** None Allocated.

6. ACCIDENTAL RELEASE MEASURES

- Spillage** If spilt (bulk), wear splash-proof goggles, PVC/rubber gloves, coveralls and rubber boots. Absorb spill with sand or similar, collect and place in sealable containers for disposal. Prevent spill entering drains or waterways. Caution: Slippery when spilt.

7. STORAGE AND HANDLING

- Storage** Store out of direct sunlight and out of the reach of children, in a cool, dry, well ventilated area, removed from oxidising agents (eg. hypochlorites), acids (sulphuric acid), heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems. Also store removed from active metals.
- Handling** Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Exposure Stds** No exposure standard(s) allocated.
- Biological Limits** No biological limit allocated.
- Engineering Controls** Ensure adequate natural ventilation.

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PPE Wear splash-proof goggles and PVC or rubber gloves. When using large quantities or where heavy contamination is likely, wear: coveralls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	BROWN/BLACK LIQUID SOLUBLE	Solubility	(Water)
Odour	WOODY	Specific Gravity	1.16
pH AVAILABLE	6-6.5	% Volatiles	NOT
Vapour Pressure FLAMMABLE	NOT AVAILABLE	Flammability	NON
Vapour Density RELEVANT	NOT AVAILABLE	Flash Point	NOT
Boiling Point RELEVANT	100°C	Upper Explosion Limit	NOT
Melting Point RELEVANT	NOT AVAILABLE	Lower Explosion Limit	NOT
Evaporation Rate AVAILABLE	> 1	Autoignition Temperature	NOT

10. STABILITY AND REACTIVITY

Material to Avoid Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulphuric acid), heat and ignition sources.

Decomposition May evolve toxic gases when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Low toxicity. No adverse health effects are anticipated with normal use. Use safe work practices to avoid eye contact.

Summary

Eye Moderate Irritant. Contact may result in irritation, lacrimation, pain and redness.

Inhalation Low irritant. Over exposure may result in mucous membrane irritation of the nose and throat with coughing.

Skin Low irritant. Prolonged or repeated contact may result in mild irritation, rash and dermatitis.

Ingestion Low toxicity. Ingestion may result in nausea, vomiting, abdominal pain and diarrhoea. Ingestion of large quantities may result in liver, kidney and blood damage.

Toxicity Data No LD50 data available for this product.

12. ECOLOGICAL INFORMATION

Environment Plant nutrients may be beneficial to plants at low levels, however high levels may cause reduced growth or burns in sensitive species. Excess may be washed through soil to waterways. Nutrients released to waterways may cause algal blooms, with the potential for toxic effects on aquatic organisms.

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13. DISPOSAL CONSIDERATIONS

Waste Disposal For small amounts, cover with moist sand or similar, collect and dispose of to an approved landfill site. Avoid generating dust. Contact the manufacturer for additional information.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

Shipping

Name	None Allocated				
UN No.	None Allocated	DG Class	None Allocated	Subsidiary Risk(s)	None Allocated
Packing Group	None Allocated	Hazchem Code	None Allocated	EPG	None Allocated

15. REGULATORY INFORMATION

Poison Schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons.

AICS All Chemicals listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Additional

- **RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to **Information** avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.
- **SYNERGISM – ANTAGONISM:** Ingredients in this product may act together to aggravate or reduce adverse effects. Accordingly, the time weighted average concentration (TWA) provided for single ingredients should be considered as a guide only and all due care exercised when handling.
- **ABBREVIATIONS:**
 - ADB – Air-Dry Basis.
 - BEI – Biological Exposure Indice(s).
 - CAS# - Chemical Abstract Service number – used to uniquely identify chemical compounds.
 - CNS – Central Nervous System.
 - EINECS – European Inventory of Existing Commercial Chemical Substances.
 - IARC – International Agency for Research on Cancer.
 - M – moles per litre, a unit of concentration.
 - Mg/m³ – Milligrams per cubic metre.
 - NOS – Not Otherwise Specified. NTP – National Toxicology Program.
 - OSHA – Occupational Safety and Health Administration.
 - pH – relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
 - ppm – Parts Per Million.
 - RTECS – Registry of Toxic Effects of Chemical Substances.
 - TWA/ES – Time Weighted Average or Exposure Standard.

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- **HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

- **PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Report Status

It is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While all due care has been taken to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, **ECTOL Pty Ltd** accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

MSDS Date: 1 MAY 2020

End of Report