

MATERIAL SAFETY DATA SHEET

BioCover[®] Horticultural Oil

Date of Issue: 8 June 2007

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: BioCover[®] Horticultural Oil

Other Names: None

Product Code: -

Recommended Use: For the management of various insect pests and diseases of fruits, vegetables, ornamentals and other plants

Supplier: AgNova Technologies Pty Ltd

ABN: 70 097 705 158

Address: P.O. Box 590
Eltham Vic 3095 Australia

Telephone: 0423 821 395

Facsimile: (03) 9722-2384

Website: www.agnova.com.au

Contact: Managing Director

Emergency Telephone Number: 1800 033 111 (24 hours)

2. HAZARDS IDENTIFICATION

Hazard Classification: **NON HAZARDOUS SUBSTANCE – NON DANGEROUS GOOD**
Not classified as hazardous according to criteria of NOHSC

Risk Phrases: None allocated

Safety Phrases: None allocated

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/L):
Petroleum Oil	-	840 g/L

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4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.

- Ingestion:** If swallowed, do not induce vomiting. Seek medical advice immediately.
- Inhalation:** Remove patient to fresh air. Seek medical attention.
- Skin Contact:** Remove contaminated clothing including shoes. Wash affected areas thoroughly with water for 15 minutes. Seek medical attention.
- Eye Contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek medical attention.
- First Aid Facilities:** Provide washing facilities in the workplace.
- Symptoms:** Only minor irritation should be expected from any type of exposure other than pulmonary aspiration. Ingestion may result in some gastroenteritis and mild diarrhoea.
- Medical Attention:** Petroleum oil poses aspiration pneumonia hazard. Since systemic toxicity is not expected, the added risk of aspiration from attempts to induce vomiting or lavage is deemed not warranted.

5. FIRE FIGHTING MEASURES

- Extinguishing Media:** Dry chemical, carbon dioxide, foam, water spray or fog.
- Hazards from Combustion Products:** May include, but are not limited to, oxides of carbon, irritating vapours or asphyxiants.
- Special Protective Precautions and Equipment for Fire Fighters:** Fire fighters should wear full protective clothing and self-contained breathing apparatus. Contain runoff. Do not release contaminated water into the environment.
- Hazchem Code:** None allocated.

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6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	Avoid contact. Wear suitable protective clothing and boots. Eliminate all ignition sources. Contain the spill. Prevent spill from entering drains, sewers or any body of water.
Methods and Materials for Containment and Clean Up Procedures:	Contain and absorb spill with clay or other inert absorbent material. Scoop or sweep up material and place in container. Decontaminate area by washing with soapy water solution and absorbing the water with absorbent material. Check local, state and federal regulations for proper disposal. Do not smoke, eat or drink during clean up operation.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Keep out of reach of children. Avoid inhalation and skin contact when handling used oil. Keep away from ignition sources. Wash hands after handling and before eating. Practice good personal hygiene. Launder work clothes frequently. Do not reuse empty containers.
Conditions for Safe Storage, including any Incompatibilities:	Store in the closed original container in a cool, well-ventilated area away from children, feed and food products, and seed. Do not store for prolonged periods in direct sunlight. Store away from any sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:	No exposure standards have been assigned by NOHSC.
Biological Limit Values:	No biological limit allocated.
Engineering Controls:	Not normally required. Work in a well-ventilated area.
Personal Protective Equipment (PPE):	<i>Eyes:</i> Avoid contact with eyes. Wear chemical goggles, shielded safety glasses and/or face-shield. <i>Clothing:</i> Avoid contact with skin. Wear cotton overalls buttoned to the neck and wrist and a washable hat. Wear rubber or chemical-resistant shoes or boots with socks. <i>Gloves:</i> Wear elbow length rubber or chemical-resistant gloves. <i>Respiratory:</i> Not normally required. Avoid inhaling spray mist or vapour. <i>Other:</i> Do not eat, drink or smoke until after washing. Wash thoroughly after handling. After each day's use wash gloves, goggles, safety glasses or face-shield and contaminated clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless to light yellow viscous liquid
Odour:	Slight odour
pH:	Not established
Vapour Pressure:	Negligible at ambient temperatures
Vapour Density:	Not established
Boiling Point:	> 100°C
Freezing / Melting Point:	Not established
Solubility:	Insoluble in water
Specific Gravity:	0.8545 - 0.863 at 20°C
Flash Point:	166°C (Cleveland Closed Cup)
Flammability (explosive) Limits:	Not established
Auto-Ignition Temperature:	Not established
Octanol/Water Partition Coefficient:	Not established
Particle Size:	Not applicable
Formulation Type:	Oil

10. STABILITY AND REACTIVITY

Chemical Stability:	Product is stable. Not flammable under normal conditions of use.
Conditions to Avoid:	Keep away from sources of ignition and excessive heat.
Incompatible Materials:	Avoid strong oxidising agents, reducing agents acids and bases.
Hazardous Decomposition Products:	Incomplete combustion may lead to formation of oxides of carbon, irritating vapours and/or other asphyxiants.
Hazardous Reactions:	Hazardous polymerisation will not occur.

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11. TOXICOLOGICAL INFORMATION

Health Effects from Likely Routes of Exposure:

Ingestion: Low to moderate toxicity.
Inhalation: May cause respiratory tract irritation.
Skin Contact: May be a skin sensitiser in some individuals.
Eye Contact: May cause transient irritation but no long term damage.
Other: None

Animal Toxicity Data:

Acute:

Oral Toxicity: LD₅₀ rat: > 2000 mg/kg
Dermal Toxicity: LD₅₀ rabbit: > 2000 mg/kg
Inhalation Toxicity: LC₅₀ rat: 5 mL/L (4 hr)
Skin Irritation: Not a skin irritant (rabbit).
Eye Irritation: May cause transient irritation but no long term damage (rabbit).
Sensitisation: May be a skin sensitiser in some individuals (rabbit).
Chronic: Animal studies show no evidence of carcinogenic effects and no teratogenic potential.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to fish and other aquatic organisms.
Do not apply directly to water or to areas where surface water is present.
DO NOT contaminate streams, rivers or waterways with the product or used containers.

Fish, Daphnia, Algae Toxicity: Toxic to fish and other aquatic organisms.

Bird Toxicity: No data available

Bee Toxicity: No data available

Other: No data available

Persistence and Degradability: No data available

Mobility: No data available

Environmental Fate: No data available

Bioaccumulative Potential: No data available

Other Adverse Environmental Effects: None known

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13. DISPOSAL CONSIDERATIONS

Disposal Methods: Follow Avcare guidelines. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

Special Precautions for Landfill or Incineration: If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for the purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN Number: Not applicable

UN Proper Shipping Name: Not applicable

Class and Subsidiary Risk: Not classified as dangerous goods for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail

Packing Group: Not applicable

Special Precautions for User: None

Hazchem Code: None allocated

15. REGULATORY INFORMATION

SUSDP (Poison Schedule): Schedule 5

APVMA: Registered according to the Agricultural and Veterinary Chemicals Act 1988.
APVMA Product Number: 59091

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16. OTHER INFORMATION

Date of Preparation or Revision: Replaces Jan 2007 edition.
Reason for update: update of supplier contact information.

Data Sources: USA supplier data

Abbreviations and Acronyms: APVMA – Australian Pesticides and Veterinary Medicines Authority
NOHSC – National Occupational Health and Safety Commission
SUSDP – Standard for the Uniform Scheduling of Drugs and Poisons

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