

Material Safety Data Sheet

Issue Date: January 2008

Statement of Hazardous Nature:

“Not classified as hazardous according to criteria of the National Occupational Health and Safety Commission”

Identification of the substance and supplier

Product Name: **eco-naturalure fruit fly bait concentrate**
Recommended Use: Organic insecticide for the control of fruit flies as per the label.
Formulation: Mixture of food grade humectants, plant proteins and spinosad

Issued by supplier: Organic Crop Protectants Pty Ltd
42 Halloran St, Lilyfield NSW 2040
Australia.

ACN: 003 149 719

Telephone: (02) 9810 4566 (Mon-Fri. 8:30 am – 5:30pm)

Emergency Telephone: (0419) 997566 (24 hrs – emergency only)

Fax Number: (02) 9810 4674

Manufactured by: Dow Agrosiences Australia Ltd
Level 5, 20 Rodborough Rd, Frenchs Forest NSW 2086
Telephone 1800 700 096 (office hours)
Emergency 1800 033 882 (emergencies only)

Hazards Identification

HSNO Hazard Classification: Non-Hazardous

Composition/information Properties

Chemical entity:	CAS No.	Proportion
Spinosad	131929-60-7 & 131929-63-0	0.02%
Other non-hazardous ingredients		99.98%

First Aid Measures

Symptoms of exposure: based on animal studies with spinosad, exposure to eco-naturalure Fruit Fly Bait Concentrate by inhalation, ingestion or contact with skin or eyes may result in minor irritation to eyes or perhaps an allergic response due to the presence of proteins from a plant extract in the product. It is highly unlikely that exposure occurring during normal use will produce any toxic effects as the product is of very low toxicity. There are no specific first aid measures required for this product. Wash off skin or irrigate eyes if irritation occurs

Consult The Poisons Information Centre, (13 11 26), or a Doctor in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention immediately.

Swallowed:	If swallowed, call the Poisons Information Centre or a doctor. Do not induce vomiting unless told to do so by the Poisons Information Centre or a doctor.
Skin:	If present on the skin, wash-off immediately. Call a doctor if irritation occurs.
Eyes:	If in the eyes, hold open eyes and rinse slowly with plenty of water. Remove contact lenses, if present. Call a doctor if irritation occurs.
Inhalation:	If affected move person to fresh air, if effects occur call a doctor.
Advice to Doctor:	No specific antidote. Treatment of exposure should be directed at the control of symptoms and clinical condition of the patient.

Workplace facilities (manufacturing and packaging): Provide emergency showers and eyewash facilities

Fire Fighting Measures

Flammable properties:	Not flammable (Flash point > 100 ⁰ C; Auto-ignition temperature > 400 ⁰ C).
Polymerisation:	Not Known
Decomposition Products:	Not known
Fire & Explosion Hazards:	Not a known fire or explosion hazard
Special Fire Fighting procedures:	Evacuate personal to a safe area. Wear positive-pressure self-contained breathing apparatus and full protective clothing. This product does not burn but may degrade under fire conditions. Fight fire based on other materials present. Do not allow water from fire fighting to enter water supplies, or drainage systems.
Extinguishing Media:	Water fog, foam, CO ₂ or dry chemical.

Accidental Release Measures

Wear appropriate protective equipment. Clear area of all unprotected personnel. Prevent entry of chemical or used/damaged containers into sewers, drains, streams or waterways. If necessary inform the police and the local council.

Small spill:	Absorb with a non-reactive material such as sand and contain in a refuse vessel for disposal.
Large spill:	Stop further release or spread of material. Absorb material and place into a salvage drum for disposal. On soils, skim off upper contaminated layer and collect it for disposal. If further information is required, telephone the emergency contact number.

Safe handling and storage

Handling:

Keep out of reach of children and animals. After work, wash hands before eating, smoking, drinking, masturbating or using toilet. Clean up spilled material immediately, and wash clothes and equipment after use. Avoid contact with eyes.

Storage:

Keep out of reach of children and animals. Store in tightly closed original containers in a cool, well ventilated area, out of direct sunlight.

Exposure Control/Personal Protection

Workplace Exposure Standards have not been set for eco-naturalure Fruit Fly Concentrate.

Personal protection

Respiratory: Respiratory protection should not be required for normal use or handling

Eye: No specific eye protection is required for normal handling and use. For manufacturing situations, wear safety glasses.

Skin/body: When there is potential for skin contact wear appropriate workclothes, such as cotton coveralls, or long-sleeved shirt and long pants, waterproof shoes plus socks.

Personal hygiene: After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Physical and Chemical Properties

Appearance:	Thick brown liquid
Odour:	Sour, fruity odour
Bulk density:	1.23 g/ml
pH (1% w/v solution)	4.9
Solubility in water:	Miscible
Vapour Pressure:	Not determined
Volatile materials	None present
Flammability	Not flammable or combustible

Stability and reactivity

Stability	Stable under normal storage conditions
Materials to avoid:	None known
Hazardous Decomposition Products:	Not known
Hazardous polymerisation:	Not known

Toxicological information

Based on the individual components present in the formulation

Health effects:

Acute

Swallowed: The product is non-toxic

Eye: Splashes of product or spray mix in the eye may irritate the eyes; however no corneal damage is likely.

Skin: Prolonged skin contact is unlikely to result in absorption of harmful amounts. The product contains proteins from plant extracts which may cause an allergic reaction to some people.

Inhaled: No adverse effects are anticipated from exposure to spray mist.

Mutagenicity: Does not cause genetic damage

Reproductive and Developmental toxicity: No observed effects

Carcinogenicity: Spinosad did not cause cancer in multiple generational studies in animals

Ecotoxicity information

Aquatic Organisms: Practically non-toxic to fish (LC_{50} or $EC_{50} > 100\text{mg/L}$ in most sensitive sp)

Terrestrial non-vertebrates: No adverse effects are likely to occur in terrestrial animals.

Honeybees are sensitive to spinosad but the use of eco-naturalure is not expected to harm bee populations, even if foraging when spraying occurs. Topical $LD_{50} > 100\mu\text{g/bee}$.

Soil and Groundwater: Spinosad has a half life in soil of 8-9 days. Slower in anaerobic conditions with a half life of 9-17 days. Spinosad is stable to heat but will breakdown under UV light.

Surface Water: Spinosad is stable to hydrolysis at acid and neutral pH's in the absence of UV light. At high pH (>9) the half-life is approx. 200 days. However, in the presence of light, spinosad hydrolysis rapidly (half-life $< 1\text{day}$)

Vegetation: Spinosad is not taken up significantly by plants at the roots or foliage.

Disposal considerations

Contaminated material must be disposed of in accordance with all local authority requirements.

Do not contaminate water, food or feed by storage or disposal

Triple rinse container before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury containers in an approved local authority landfill.

If disposing of unwanted product contact Organic Crop Protectants or your local council.

Transport information

UN No.: None

Dangerous Goods Class: Not classified as a Dangerous Good under the Transport of Dangerous Goods by Road or Rail

Hazchem Code: None

Regulatory information

Eco-naturalure Fruit Fly Bait is a product registered by the Australian Pesticides & Veterinary Medicines Authority. Registered product number 60532. The product has been certified as an Allowed Input (No: AI222) on organic crops by Australian Certified Organic Pty Ltd, on behalf of Biological Farmers of Australia Co-op Ltd.

Contact Points

For further information call the contact below or a Dow Agrosiences Customer service Representative (Toll Free) on 1800 700 096 during business hours.

Contact:	Gary Leeson
Phone:	(02) 9810 4566 (work)
	(0419) 997566 (emergency)

The MSDS has been developed according to the WORKSAFE Australia / NDHSC Code of Practice.