

MATERIAL SAFETY DATA SHEET

Ficam®

Date of Issue: October 14, 2002

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: **Ficam® D Insecticide**
Other names: Ficam Banana Dust
Product code: AE B052020 00 DP01 A3
Recommended use: An insecticidal dust used for the control of a range of household pests.
Supplier: Bayer Environmental Science – A Business Group of Bayer CropScience Pty Ltd ABN 87 000 226 022
Address: 391 - 393 Tooronga Road, East Hawthorn Victoria 3123, Australia
Telephone: (03) 9248 6888
Facsimile: (03) 9248 6800
Website: www.bayercropscience.com.au
Contact: Technical Manager (03) 9248 6854
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

May irritate eyes and skin. Not flammable.

Hazard designation: Not classified as hazardous according to criteria of Worksafe Australia.
Risk phrases: R21 – Harmful in contact with skin
R25 – Toxic if swallowed
Safety phrases: Not applicable
ADG classification: This product is not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.
SUSDP classification: Schedule 5 (Standard for the Uniform Scheduling of Drugs and Poisons)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Bendiocarb	[22781-23-3]	10
Other ingredients	(non hazardous)	990

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4. FIRST AID MEASURES

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

Inhalation: Remove person to fresh air. If poisoned through lungs, give atropine tablets as above. Artificial respiration may be required. Seek medical advice.

Skin contact: If poisoned by skin absorption, remove any contaminated clothing, wash skin thoroughly with soap and water and continue flushing with water for at least 15 minutes. Give atropine tablets as above. Seek medical advice. Launder contaminated clothing before re-use.

Eye contact: Rinse immediately with water for at least 15 minutes and seek medical advice.

Ingestion: If swallowed, give one atropine tablet every 5 minutes until dryness of the mouth occurs. Get to a doctor or hospital quickly.

First Aid Facilities: Obtain an emergency supply of atropine tablets 0.6 mg.

Symptoms: Like other carbamate insecticides, bendiocarb is a reversible cholinesterase inhibitor. Symptoms typical of cholinesterase inhibition (for all routes of entry) include nausea, diarrhoea, abdominal cramps, muscle weakness, dizziness, pinpoint pupils, chest discomfort, loss of reflexes, blurred vision, headache, sweating, decreased pulse, mental confusion and tremors.

Medical attention: Bendiocarb is a carbamate insecticide, which is a reversible cholinesterase inhibitor. Atropine, preferably by injection, is an antidote. Do not use pralidoxime.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water fog or fine spray, carbon dioxide, dry chemical, foam.

Hazards from combustion products: Fine dust may form explosive mixtures in air. The product is not flammable, but when heated above 125° C will evolve toxic fumes of methyl isocyanate. Water is the preferred extinguishing medium as it decomposes any methyl isocyanate.

Precautions for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus. Do not release contaminated water into the

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environment.

6. ACCIDENTAL RELEASE MEASURES

Wear suitable protective clothing and remove sources of ignition. Prevent spill from entering drains, sewers or any body of water. Scoop or shovel into sealable containers for disposal, avoiding formation of a dust cloud. Wash contaminated surface with water.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with skin and eyes, and do not inhale dust. Use only in a well-ventilated area.

Storage: Store product in the closed, original container in a safe, cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: No exposure standard has been assigned by the National Occupational Health and Safety Commission (Worksafe Australia). WHO recommended TLV for bendiocarb is 0.2 mg/m³ (8 h) or 9.6 mg/m³ (10 minutes).
ACGIH TLV – TWA – Talc – 2 mg/m³

Production workers and applicators handling this product should be monitored for cholinesterase levels. A baseline level should be established prior to any potential exposure.

Engineering controls: Control process conditions to avoid contact. Use local exhaust ventilation during manufacture and use.

Personal Protective Equipment:

Eyes:	Face shield or goggles
Clothing:	Cotton overalls buttoned to the neck and wrist and a washable hat
Gloves:	Elbow-length PVC gloves
Respiratory:	Wear a disposable respirator in enclosed areas.
Other:	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Fine white powder. Practically odourless.
Odour:	Practically odourless.
Vapour pressure:	Data not available
Vapour density:	Data not available
Boiling point:	Not applicable
Freezing/melting point:	Data not available
Solubility:	Insoluble; will not mix with water
Density:	Data not available
pH:	Not available
Flash Point:	Data not available
Flammability (explosive) limits:	Data not available
Auto-ignition temperature:	Data not available
Octanol/water partition coefficient:	Data not available
Formulation:	Ready to use dust

10. STABILITY AND REACTIVITY

Chemical stability:	Ficam D Insecticide Dust is not flammable. However, Fine dust may form explosive mixtures in air.
Hazardous polymerisation:	None
Conditions to avoid:	Dust / air mixtures can build up static electrical charges, and should be kept away from volatile chemicals.
Incompatible materials:	Volatile chemicals
Hazardous decomposition products:	The product is not flammable, but when heated above 125° C will evolve toxic fumes of methyl isocyanate.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

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- Inhalation:** Will irritate nose and throat.
- Skin contact:** May irritate the skin.
- Eye contact:** Contact with the eyes will cause tears and blurred vision. Mildly irritating.
- Ingestion:** Ingestion causes nausea or vomiting.
- Other:** None

ANIMAL TOXICITY DATA – PRODUCT:

Acute:

- Oral toxicity:** LD₅₀ rat: >12,000 mg/kg
- Dermal toxicity:** LD₅₀ rabbit: > 5,000 mg/kg
- Inhalation toxicity:** LC₅₀ (4 h) rat: > 20 mg/L
- Skin irritation:** Not available
- Eye irritation:** Not available
- Sensitisation:** Not available

Chronic:

Repeated minor exposure may have a cumulative poisoning effect. The main health effect from repeated exposure would be toxic symptoms of cholinesterase inhibition described above. Bendiocarb is not mutagenic, carcinogenic nor teratogenic.

12. ECOLOGICAL INFORMATION

- Fish toxicity:** LC₅₀ rainbow trout: 1.55 mg/L (96 h) (Bendiocarb)
- Daphnia toxicity:** Not available
- Toxicity to algae:** Not available
- Bird toxicity:** LD₅₀ mallard ducks: 3.1 mg/kg (Bendiocarb)
LD₅₀ quail: 19 mg/kg (Bendiocarb)

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Bee toxicity: Toxic to bees
Other: Toxic to earthworms

Environmental fate, persistence and degradation: Do not contaminate any body of water with this product. Bendiocarb persistence in soil is low.

13. DISPOSAL CONSIDERATIONS

Follow Avcare guidelines. Check local regulations for disposal of waste. Avoid release into the environment.

Triple rinse or preferably pressure rinse containers before disposal. Dispose of rinsings in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Break, crushes, 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. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN number: Not applicable
Proper shipping name: Not applicable
Class and Subsidiary Risk: This product is not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Packing Group: Not applicable
EPG: Not applicable
Hazchem code: Not applicable

15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988

National Registration Authority approval number: 31986

16. OTHER INFORMATION

Trademark information: Ficam® is a Registered Trademark of Bayer

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Preparation

information:

Replaces June 14, 2001 edition.

Reason for update: Conversion to 16 heading format.

Data sources:

Bayer CropScience Pty Ltd product safety data and published data

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS