

9-28-05

MATERIAL SAFETY DATA SHEET

Ficam® W Insecticide

Date of Issue: October 11, 2002

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: **Ficam® W Insecticide**

Other names: None

Product code: AE B052020 00 WP80 A4

SAP Product code: 131504 (150 g); 131458 (1.5 kg)

Recommended use: An insecticide used in buildings, as a seed treatment and on turf

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

HAZARDOUS SUBSTANCE - DANGEROUS GOOD
Toxic if swallowed. Will irritate eyes and skin. Not flammable.

Hazard designation: Hazardous according to criteria of Worksafe Australia.

Risk phrases: R24 – Toxic if swallowed
R23 – Toxic by inhalation
R21 – Harmful in contact with skin
R38 – Irritating to the skin

Safety phrases: Not applicable

ADG classification: Class 6.1

SUSDP classification: Schedule 6

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/kg):
Bendiocarb	[22781-23-3]	800
Other ingredients	(non hazardous)	200

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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. Do not give anything by mouth to an unconscious person.
- 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 environment.

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7. 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. If the diluted spray mix is spilt, absorb with an inert absorbent, and scoop up as above. Wash contaminated surface with water.

8. HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with skin and eyes, and do not inhale dust or spray mist. Use only in a well-ventilated area. Store product in the closed, original container in a safe, cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.

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

9. 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:	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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10. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white powder.
Odour:	Practically odourless.
Vapour pressure:	Not available
Vapour density:	Not available
Boiling point:	Not applicable
Freezing/melting point:	Not applicable
Solubility:	Forms suspension
Density:	Not applicable
pH:	~ 7 (1% in water)
Flash Point:	Not applicable
Flammability (explosive) limits:	Not available
Flammability:	Ficam W Insecticide is not flammable. However, dust / air mixtures can build up static electrical charges, and should be kept away from volatile chemicals.
Auto-ignition temperature:	Not available
Octanol/water partition coefficient:	Not available
Formulation:	Powder insecticide for use in buildings, as seed treatment and on turf

11. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use. Fine dust may form explosive mixtures in air.
Hazardous polymerisation:	None
Conditions to avoid:	Avoid heat, oxidising agents and sources of ignition.
Incompatible materials:	
Hazardous decomposition products:	The product is not flammable, but when heated above 125° C will evolve toxic fumes of methyl isocyanate.

12. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation:	Toxic by inhalation.
Skin contact:	Harmful in contact with skin. Poisonous if absorbed by skin contact.

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- Will irritate the skin.
- Eye contact:** Contact with the eyes will cause tears and blurred vision. Mildly irritating.
- Ingestion:** Toxic if swallowed. Ingestion causes nausea or vomiting.
- Other:** None

ANIMAL TOXICITY DATA – PRODUCT: No data available for the product.

ANIMAL TOXICITY DATA – ACTIVE INGREDIENT:

Acute:

- Oral toxicity:** LD₅₀ rat: >179 mg/kg
- Dermal toxicity:** LD₅₀ rabbit: > 1000 mg/kg
- Inhalation toxicity:** LC₅₀ (4 h) rat: 0.3mg/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.

13. ECOLOGICAL INFORMATION

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

Environmental

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

14. DISPOSAL CONSIDERATIONS

Follow Avcare guidelines. Check local regulations for disposal of hazardous waste. Avoid release into the environment. Rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Dispose of at 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.

15. TRANSPORT INFORMATION

UN number: 2757
Proper shipping name: CARBAMATE PESTICIDE, SOLID, TOXIC (bendiocarb)
Class and Subsidiary Risk: 6.1
Packing Group: II
EPG: 34 - Dangerous Goods – Initial Emergency Response Guide
Hazchem code: 2X

16. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Act 1988
National Registration Authority approval number: 31988

17. OTHER INFORMATION

Trademark information: Ficam ® is a Registered Trademark of Bayer.

Preparation information: Replaces January 10, 2002 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

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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