

Bayer Environmental Science
Material Safety Data Sheet
Ficam® W Insecticide



Version / AUS
10200000704

Revision Date: 25.10.2011

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **Ficam® W Insecticide**
Other names: None
Product code (UVP): 5935377
Recommended use: Insecticide

Chemical formulation: Wettable powder (WP)

Company: Bayer Environmental Science
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SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

HAZARDOUS SUBSTANCE	DANGEROUS GOODS
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Hazardous classification: Hazardous (National Occupational Health and Safety Commission - NOHSC).

R-phrases(s): R23/25 – Toxic by inhalation and if swallowed.
R21 – Harmful in contact with skin.

S-phrase(s): See sections 4, 5, 6, 7, 8, 10, 13.

ADG Classification: Not a “Dangerous good” for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. For transport by sea, Ficam W Insecticide is a MARINE POLLUTANT. See Section 14.

SUSMP classification (Poison Schedule): Schedule 6 (Standard for the Uniform Scheduling of Medicines and Poisons).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Bendiocarb 800 g/kg

Chemical Name	CAS-No.	Concentration [%]
Bendiocarb	22781-23-3	80.00
Silica, amorphe	7631-86-9	< 9.00
Other ingredients (non-hazardous) to 100 %		



SECTION 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 the doctor.

Inhalation

Move the victim to fresh air and keep at rest. Call a physician or poison control center immediately.

Skin contact

In case of skin contact, immediately wash with plenty of soap and water for at least 15 minutes. If symptoms persist, call a physician.

Eye contact

In the case of contact with eyes, rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Ingestion

Keep at rest. Rinse mouth. Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract.) Call a physician or poison centre immediately.

Notes to physician

Symptoms

Local: The product causes irritation of eyes, skin and mucous membranes.
Systemic: Bradycardia, sweating, convulsions, nausea, lachrymation, salivation, vomiting, diarrhoea, miosis, hypotension, bronchial hypersecretion, myoclonus, respiratory paralysis, somnolence, coma, respiratory failure, hypothermia, fibrillation, spasm.

Risks

This product is a cholinesterase inhibitor carbamate.

Treatment

Local treatment: Initial treatment: symptomatic.
Systemic treatment: Initial treatment: symptomatic.
In case of ingestion gastric lavage within the first hour after ingestion and after intubation only with consecutive application of activated charcoal and sodium sulphate should be performed.
In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens.
Keep respiratory tract clear.
Oxygen or artificial respiration if needed.
The following antidotes are generally accepted: atropin and oximes.
Recovery is spontaneous and without sequelae.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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Extinguishing media which should not be used for safety reasons

High volume water jet.

Hazards from combustion products

Dangerous gases are evolved in the event of a fire.

Precautions for fire-fighting

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

Whenever possible, contain fire-fighting water by diking area with sand or earth.

Hazchem Code 2X

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment.

Avoid contact with spilled product or contaminated surfaces.

Keep unauthorized people away.

Environmental precautions

Do not allow to get into surface water, drains and ground water.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Collect and transfer the product into a properly labeled and tightly closed container.

Rinse away rest with plenty of water.

Additional advice

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

Check also for any local site procedures.

SECTION 7. HANDLING AND STORAGE

Handling

Hygiene measures:

When using, do not eat, drink or smoke.

Remove soiled clothing immediately and clean thoroughly before using again.

Contaminated work clothing should not be allowed out of the workplace.

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Wash hands immediately after work, if necessary take a shower.

Storage

Requirements for storage areas and containers:

Keep out of the reach of children.

Store in a place accessible by authorized persons only.

Keep away from direct sunlight.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Flammability:

St2: St2



SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Bendiocarb	22781-23-3	0.2 mg/m ³ (TWA)		OES BCS
Silica, amorphe (Respirable fraction)	7631-86-9	2 mg/m ³ (TWA)	08 2005	AU OEL

For further details on the Occupational Exposure Standards, see Section 16.

Personal protective equipment - End user

- Respiratory protection: Disposable respirator.
- Hand protection: Elbow-length PVC or nitrile gloves.
- Eye protection: Face-shield or goggles.
- Skin and body protection: Cotton overall buttoned to the neck and wrist.
Washable hat.

Engineering Controls

- Advice on safe handling:
No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.
Avoid dust formation.
Ensure adequate ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

- Form: Powder
Colour: Off white
Odour: No data available

Safety data

- pH: No data available
- Flash point: Not applicable
- Ignition temperature: No data available
- Minimum ignition energy: 30 -100 mJ
- Upper explosion limit: No data available
- Lower explosion limit: 30 g/m³
- Dust explosion class: St2
- Vapour pressure: No data available
- Relative vapour density: No data available

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Density:	No data available
Bulk density:	0.35 kg/m ³ (bulk density tapped)
Water solubility:	Miscible
Partition coefficient: n-octanol/water:	No data available
Other information:	Combustible solid product

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid:	Heat, flames and sparks. Extremes of temperature and direct sunlight.
Materials to avoid:	Oxidizing agents.
Hazardous decomposition products:	Thermal decomposition can lead to release of: Methyl isocyanate

SECTION 11. TOXICOLOGICAL INFORMATION

Potential health effects

Inhalation:	Toxic by inhalation.
Skin:	Harmful if absorbed through skin. Irritation to skin.
Eye:	May cause mild irritation to eye.
Ingestion:	Toxic if swallowed.
Acute oral toxicity:	LD ₅₀ (rat) 179 mg/kg
Acute inhalation toxicity:	LC ₅₀ (rat) 0.313 mg/L Exposure time: 6 h
Acute dermal toxicity:	LD ₅₀ (rat) > 1,000 mg/kg
Skin irritation:	No skin irritation (rabbit).
Eye irritation:	No eye irritation (rabbit).
Sensitisation:	Non-sensitizing (guinea pig). OECD Test Guideline 406, Magnusson & Kligman test

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish:	LC ₅₀ (<i>Cyprinodon variegatus</i> (Sheepshead minnow)) 0.86 mg/L Exposure time: 96 h
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Toxicity to aquatic invertebrates:	EC ₅₀ (<i>Daphnia magna</i> (Water flea)) 0.0377 mg/L Exposure time: 48 h
Toxicity to aquatic plants:	EC ₅₀ (<i>Pseudokirchneriella subcapitata</i>) 0.408 mg/L Exposure time: 48 h

Additional ecological information

The ecological data given are those of the active ingredient bendiocarb.

Biodegradability:	Readily biodegradable. The value mentioned relates to the active ingredient bendiocarb.
Bioaccumulation:	<i>Lepomis macrochirus</i> (Bluegill sunfish) Bioconcentration factor (BCF): 6

SECTION 13. DISPOSAL CONSIDERATIONS

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. 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 this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SECTION 14. TRANSPORT INFORMATION

ADG

UN-Number	2757
Class	6.1
Subsidiary Risk	None
Packaging group	II
Description of the goods	CARBAMATE PESTICIDE, SOLID, TOXIC (BENDIOCARB MIXTURE)
Hazchem Code	2X

According to AU01, Environmentally Hazardous Substances in packagings, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.

IMDG

UN-Number	2757
Class	6.1
Subsidiary Risk	None
Packaging group	II
EmS	F-A , S-F
Marine pollutant	YES
Description of the goods	CARBAMATE PESTICIDE, SOLID, TOXIC (BENDIOCARB MIXTURE)

IATA

UN-Number	2757
Class	6.1
Subsidiary Risk	None
Packaging group	II
Environm. Hazardous Mark	NO



Description of the goods CARBAMATE PESTICIDE, SOLID, TOXIC
(BENDIOCARB MIXTURE)

SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994.

Australian Pesticides and Veterinary Medicines Authority approval number: 31988.

See also Section 2.

SECTION 16. OTHER INFORMATION

Trademark information

Ficam® is registered trademark of Bayer.

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.

Further details on the Occupational Exposure Standards mentioned in Section 8:

CEILING: Ceiling Limit Value

OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.

STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.

SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure.

TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

END OF MSDS