

Bayer Environmental Science  
Safety Data Sheet  
Ficam® W Insecticide



Version 1 / AUS  
10200000704

Revision Date: 21.10.2013

**SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product name: **Ficam® W Insecticide**  
Other names: None  
Product code (UVP): 05935598  
Recommended use: Insecticide  
  
Chemical formulation: Wettable powder (WP)  
  
Company: Bayer CropScience Pty. Ltd.  
ABN 87 000 226 022  
391-393 Tooronga Road, East Hawthorn  
Victoria 3123, Australia  
  
Telephone: (03) 9248 6888  
Technical Information Service: 1800 804 479  
Facsimile: (03) 9248 6800  
Website: www.bayeres.com.au  
Emergency telephone no.: 1800 033 111 Orica SH&E Shared Services

**SECTION 2. HAZARDS IDENTIFICATION**

**Emergency Overview**

|                            |                        |
|----------------------------|------------------------|
| <b>HAZARDOUS SUBSTANCE</b> | <b>DANGEROUS GOODS</b> |
|----------------------------|------------------------|

Hazardous classification: Hazardous (National Occupational Health and Safety Commission - NOHSC).  
R-phrase(s): R23/25 – Toxic by inhalation and if swallowed.  
R21 – Harmful in contact with skin.  
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
S-phrase(s): See sections 4, 5, 6, 7, 8, 10, 13.  
ADG Classification: "Dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. - 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  | >= 1.00 - <=10.00 |
| Other ingredients (non-hazardous) to 100 % |            |                   |

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#### 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 Safety Data Sheet to the doctor.**

##### General advice

Remove contaminated clothing immediately and dispose of safely.

##### Inhalation

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

##### Skin contact

Immediately wash with plenty of soap and water for at least 15 minutes. If symptoms persist, call a physician.

##### Eye contact

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.

### Extinguishing media which should not be used for safety reasons

High volume water jet.

### Hazards from combustion products

In the event of fire the following may be released:

Carbon dioxide (CO<sub>2</sub>)

Carbon monoxide (CO)

Hydrogen cyanide (hydrocyanic acid)

Methyl isocyanate

### Precautions for fire-fighting

In the event of fire and/or explosion do not breathe fumes.

In the event of fire, wear self-contained breathing apparatus.

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

Keep people away from and upwind of spill/leak.

Avoid dust formation.

Avoid contact with spilled product or contaminated surfaces.

When dealing with a spillage do not eat, drink or smoke.

### Environmental precautions

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

### Methods for cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

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

Clean floors and contaminated objects 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.

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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.

Advice on protection against fire and explosion:  
Dust may form explosive mixture in air.

#### 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.

Advice on common storage:  
Keep away from food, drink and animal feedingstuffs.

Flammability: St2: St2 (strongly explosible)

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Components with workplace control parameters

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

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

### Personal protective equipment - End user

Respiratory protection: Wear disposable respirator in enclosed areas.  
Hand protection: Elbow-length PVC gloves.  
Eye protection: Face-shield or goggles is recommended as good practice.  
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: Beige

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|   |   |
|---|---|
| Odour:                                  | Weak, characteristic  |
| <b>Safety data</b>                      |   |
| 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/m <sup>3</sup>   |
| Dust explosion class:                   | St2 (strongly explosible)                                   |
| Vapour pressure:                        | No data available   |
| Relative vapour density:                | No data available   |
| Density:                                | No data available   |
| Bulk density:                           | 0.250 kg/m <sup>3</sup> (bulk density tapped)               |
| Water solubility:                       | Miscible  |
| Partition coefficient: n-octanol/water: | No data available   |
| Other information:                      | Further safety related physical-chemical data are not known |

#### SECTION 10. STABILITY AND REACTIVITY

|                                   |   |
|-----------------------------------|---|
| Conditions to avoid:              | Heat, flames and sparks.<br>Extremes of temperature and direct sunlight.            |
| Materials to avoid:               | Oxidizing agents.   |
| Hazardous decomposition products: | Thermal decomposition can lead to release of:<br>Methyl isocyanate                  |
| Hazardous reactions:              | No hazardous reactions when store and handled according to prescribed instructions. |

#### SECTION 11. TOXICOLOGICAL INFORMATION

|                                 |   |
|---------------------------------|---|
| <b>Potential health effects</b> |   |
| Inhalation:                     | Toxic by inhalation.                                  |
| Skin:                           | Harmful if absorbed through skin. Irritation to skin. |
| Eye:                            | May cause mild irritation to eye.                     |



Ingestion: Toxic if swallowed.

**Animal toxicity studies**

Acute oral toxicity: LD<sub>50</sub> (rat) 50 mg/kg

Acute inhalation toxicity: LC<sub>50</sub> (rat) 0.313 mg/L  
Exposure time: 6 h

Acute dermal toxicity: LD<sub>50</sub> (rat) > 2,000 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

**Assessment mutagenicity toxicity**

Bendiocarb was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

**Assessment carcinogenicity**

Bendiocarb was not carcinogenic in lifetime feeding studies in rats and mice.

**Assessment toxicity to reproduction**

Bendiocarb did not cause reproductive toxicity in a two-generation study in rats.

**Assessment development toxicity**

Bendiocarb did not cause developmental toxicity in rats and rabbits.

**Chronic toxicity**

Bendiocarb caused reversible cholinesterase inhibition without long term effects in animal studies.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects**

Toxicity to fish: LC<sub>50</sub> (*Oncorhynchus mykiss* (Rainbow trout)) 0.87 mg/L  
Exposure time: 96 h

Toxicity to aquatic invertebrates: EC<sub>50</sub> (*Daphnia magna* (Water flea)) 0.0377 mg/L  
Exposure time: 48 h  
The value mentioned relates to the active ingredient bendiocarb.

Toxicity to aquatic plants: EC<sub>50</sub> (*Pseudokirchneriella subcapitata*) 0.408 mg/L  
Exposure time: 48 h  
The value mentioned relates to the active ingredient bendiocarb.

Biodegradability: Not readily biodegradable.  
The value mentioned relates to the active ingredient bendiocarb.

Stability in soil: Moderately mobile in soils.  
The value mentioned relates to the active ingredient bendiocarb.

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|                                    |   |
|------------------------------------|---|
| Bioaccumulation:                   | <i>Lepomis macrochirus</i> (Bluegill sunfish)<br>Bioconcentration factor (BCF): 65<br>The value mentioned relates to the active ingredient bendiocarb.<br>Does not bioaccumulate. |
| Additional ecological information: | No other effects to be mentioned.   |

#### 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                | <b>2757</b>   |
| Class                    | 6.1   |
| Subsidiary Risk          | None  |
| Packaging group          | II  |
| Description of the goods | CARBAMATE PESTICIDE, SOLID, TOXIC<br>(BENDIOCARB MIXTURE) |

##### IMDG

|                           |   |
|---------------------------|---|
| UN-Number:                | <b>2757</b>   |
| 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<br>(BENDIOCARB MIXTURE) |

##### IATA

|                           |  |
|---------------------------|--|
| UN-Number:                | <b>2757</b>  |
| Class:                    | 6.1  |
| Subsidiary Risk:          | None   |
| Packaging group:          | II   |
| Environm. Hazardous Mark: | NO   |
| Description of the goods: | CARBAMATE PESTICIDE, SOLID, TOXIC<br>(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 the Bayer Group.

This SDS 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 SDS 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 SDS