

# Bayer Environmental Science

## Safety Data Sheet

### Ficam® W Insecticide



Version / NZ  
10200000704

Revision Date: 24.07.2012

#### 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 New Zealand Limited  
3 Argus Place  
Glenfield  
Auckland  
New Zealand

Telephone: 0800 227 012  
Facsimile: 0800 227 011  
Website: [www.bayeres.com.au](http://www.bayeres.com.au)  
Emergency telephone no.: 0800 734 607 Orica SH&E Shared Services (24 hr)

#### SECTION 2. HAZARDS IDENTIFICATION

| HAZARDOUS SUBSTANCE | Emergency Overview | DANGEROUS GOODS |
|---------------------|--------------------|-----------------|
|---------------------|--------------------|-----------------|

|                                 |   |  |
|---------------------------------|---|--|
| Hazardous classification:       | Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.   |  |
| HSNO classifications:           | 6.1B (All), 6.1B (O), 6.1C (I), 6.1D (D), 6.9A (All), 9.1A (All), 9.1A (F), 9.3A, 9.4A.<br>Fatal if swallowed.<br>Toxic if inhaled.<br>Harmful in contact with skin.<br>Causes damage to organs from repeated oral exposure.<br>Very toxic to aquatic life.<br>Very toxic to terrestrial vertebrates.<br>Very toxic to terrestrial invertebrates. |  |
| GHS pictograms:                 |   |  |
| Signal word:                    | Danger.   |  |
| R-phrases:                      | R23/25 – Toxic by inhalation and if swallowed.<br>R21 – Harmful in contact with skin.<br>R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  |  |
| S-phrases:                      | See sections 4, 5, 6, 7, 8, 10, 12, 13.   |  |
| Dangerous goods classification: | “Dangerous goods” for transport according to NZS 5433:1999, UN, IMDG or IATA - See Section 14.  |  |



**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**

**In case of poisoning by any exposure route contact the National Poisons and Hazardous Chemicals Information Centre, P.O. Box 913, Dunedin. Phone 0800 764 766, 0800 POISON and follow the advice given. Show this Safety Data Sheet to the doctor.**

**Workplace facilities**

Ensure washing facilities are available.

**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.

### 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 labelled and tightly closed container.

- For quantities up to 50 kg of product bury in a secure approved landfill site.
- For quantities greater than 50 kg seek advice from the manufacturer (use emergency contact number) before attempting disposal. Contain in a secure location until disposal method is established.

Decontaminate the spill area with water and rinse with the smallest volume of water practicable.

### 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.

**Approved handler**

This product must be under the control of an approved handler or secured.

**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 <sup>3</sup><br>(TWA) |         | OES BCS       |
| Silica, amorphe<br>(Respirable fraction) | 7631-86-9  | 2 mg/m <sup>3</sup><br>(TWA)   | 09 2010 | OHS WES<br>NZ |

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.

# Bayer Environmental Science

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Version / NZ  
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Revision Date: 24.07.2012

#### 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/m<sup>3</sup>  
Dust explosion class: St2  
Vapour pressure: No data available  
Relative vapour density: No data available  
Density: No data available  
Bulk density: 0.35 kg/m<sup>3</sup> (bulk density tapped)  
Water solubility: Miscible  
Partition coefficient: n-octanol/water: No data available  
Other information: Combustible solid product

#### SECTION 10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.  
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.

Bayer Environmental Science  
Safety Data Sheet  
Ficam® W Insecticide



Version / NZ  
102000000704

Revision Date: 24.07.2012

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) 179 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) > 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

**HSNO classifications**

6.1B, 6.1C, 6.1D, 6.9A.

Fatal if swallowed

Toxic if inhaled.

Harmful in contact with skin.

Causes damage to organs from repeated oral exposure.

**Assessment mutagenicity**

Did not show mutagenic effects in animal experiments.

**Assessment teratogenicity**

No indication of developmental toxicity in animal tests.

**Assessment carcinogenicity**

Did not show carcinogenic effects in animal experiments.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity effects**

Toxicity to fish: LC<sub>50</sub> (*Cyprinodon variegatus* (Sheepshead minnow)) 0.86 mg/L  
Exposure time: 96 h  
The value mentioned relates to the active ingredient bendiocarb.

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: Readily biodegradable.  
The value mentioned relates to the active ingredient bendiocarb.



Bioaccumulation: *Lepomis macrochirus* (Bluegill sunfish)  
Bioconcentration factor (BCF): 6  
The value mentioned relates to the active ingredient bendiocarb.

**HSNO classifications**

9.1A, 9.3A, 9.4A.  
Very toxic to aquatic life.  
Very toxic to terrestrial vertebrates.  
Very toxic to terrestrial invertebrates.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Product**

Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.

**Container**

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

**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**

EPA approval number: APPROVED PURSUANT TO THE HSNO ACT 1996, No. HSR000451.  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

ACVM approval: NZFSA Approved Type B (All animal product except dairy).

**Record keeping**

This product must be tracked – see current version of NZS 8409 Management of Agrichemicals. A person using this substance in an area where members of the public may be present or where the substance may enter air or water, must keep written records of each such use for a minimum of 3 years following the use. The record of use must be made available to an enforcement officer on request.

**Approved handler**

This product must be under the control of an approved handler or secured.

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.



Bayer Environmental Science  
Safety Data Sheet  
Ficam® W Insecticide



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

Reason for revision: Changed name from Material Safety Data Sheet to Safety Data Sheet.

END OF SDS