

Bayer Environmental Science
Material Safety Data Sheet
Ficam® D Insecticide Dust



Version / AUS
10200001385

Revision Date: 25.10.2011

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **Ficam® D Insecticide Dust**
Other names: None
Product code (UVP): 05936500
Recommended use: Insecticide

Chemical formulation: Dustable powder (DP)

Company: Bayer Environmental Science
A Business Operation of Bayer CropScience Pty Ltd
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SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview
NON-HAZARDOUS SUBSTANCE DANGEROUS GOODS

Hazardous classification: Non-Hazardous (National Occupational Health and Safety Commission - NOHSC).
R-phrases: None allocated.
S-phrases: 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 D Insecticide Dust is a MARINE POLLUTANT. See Section 14.
SUSMP classification (Poison Schedule): Schedule 5 (Standard for the Uniform Scheduling of Medicines and Poisons).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Bendiocarb 10g/kg

Chemical Name	CAS-No.	Concentration [%]
Bendiocarb	22781-23-3	1.25
Talc (asbestos free, less than 1% crystalline silica)	14807-96-6	>= 50.00
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

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Call a physician or poison control center immediately.

Eye contact

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion

Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. 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.)

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: In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens.

Contraindications: derivatives of morphine.

Recovery is spontaneous and without sequelae.

Oxygen or artificial respiration if needed.

Keep respiratory tract clear.

In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

The following antidotes are generally accepted: atropin and oximes.

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:
Methyl isocyanate
Nitrogen oxides (NO_x)

Precautions for fire-fighting

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 2Z

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

Use approved industrial vacuum cleaner for removal.
Keep in suitable, closed containers for disposal.
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.
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.

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

Advice on common storage:

Keep away from food, drink and animal feedingstuffs.

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
Talc	14807-96-6	2.5 mg/m ³ (TWA)	08 2005	AU OEL

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

Biological limit values: None

Personal protective equipment - End user

Respiratory protection: Half mask against dust and organic vapours (A2/P2).

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: Grey white
Odour: Odourless

Safety data

pH: No data available
Flash point: Not applicable
Ignition temperature: No data available
Upper explosion limit: No data available



Lower explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Density:	No data available
Bulk density:	500 - 700 kg/m ³
Water solubility:	Immiscible
Partition coefficient: n-octanol/water:	No data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Hazardous decomposition products:	Methyl isocyanate Nitrogen oxides (NOx)
Hazardous reactions:	No hazardous reactions when stored and handled according to prescribed instructions.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential health effects

Inhalation:	Harmful if inhaled. Avoid breathing dust.
Skin:	Harmful if absorbed through skin. Avoid contact with skin and clothing.
Eye:	Do not get in eyes.
Ingestion:	Harmful if swallowed. Do not take internally.
Chronic exposure:	This product is not listed as a carcinogen by ACGIH, NTP, IARC or OSHA. However, it may contain crystalline silica (quartz), a substance which has been listed as a carcinogen by ACGIH, NTP and IARC. Crystalline silica is a naturally-occurring mineral component of many sands and clays. Although the carcinogenic potential of crystalline silica in humans is controversial, it must be considered if it is inhaled under excessive exposure conditions. The respirable portion of the silica that may be contained in this product, however, is small, such that inhalation exposure during anticipated conditions of use is minimal.
Acute oral toxicity:	LD ₅₀ (rat) 12,000 mg/kg

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Acute inhalation toxicity:	LC ₅₀ (rat) > 21.5 mg/L Exposure time: 6 h
Acute dermal toxicity:	LD ₅₀ (rat) > 5,000 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 Test conducted with a similar formulation.

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
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

Metal drums and plastic containers

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	3077
Class	9
Subsidiary Risk	None
Packaging group	III

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Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BENDIOCARB MIXTURE)
Hazchem Code	2Z

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	3077
Class	9
Subsidiary Risk	None
Packaging group	III
EmS	F-A , S-F
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BENDIOCARB MIXTURE)

IATA

UN-Number	3077
Class	9
Subsidiary Risk	None
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (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: 31986.

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.

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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