

**FICAM D DP1 4X3KG BOX GB**Version 4 / GB  
1020000013851/8  
Revision Date: 27.02.2008  
Print Date: 28.02.2008**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name FICAM D DP1 4X3KG BOX GB  
Product code (UVP) 05936500  
Usage Insecticide  
Company Bayer Environmental Science  
230 Cambridge Science Park  
Milton Road  
Cambridge  
Cambridgeshire CB4 0WB  
Great Britain

Telephone +44(0)1223 226500  
Telefax +44(0)1223 426240  
Responsible Department Email: ukinfo@bayercropscience.com

Emergency telephone number 0800-220876 (UK 24 hr)  
+44(0)1603-242424 (Overseas 24 hr)

**2. HAZARDS IDENTIFICATION****Risk advice to man and the environment**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**Dustable powder (DP)  
Bendiocarb 1,25% w/w**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Bendiocarb	22781-23-3 245-216-8	T, N	R21, R23/25, R50/53	1.25
Talc	14807-96-6 238-877-9			> 1.00

For the full text of the R phrases mentioned in this Section, see Section 16.

**4. FIRST AID MEASURES****General advice**

Remove contaminated clothing immediately and dispose of safely.

**Inhalation**

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.



## FICAM D DP1 4X3KG BOX GB

Version 4 / GB  
102000001385

2/8  
Revision Date: 27.02.2008  
Print Date: 28.02.2008

### 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.

#### Symptoms

Systemic: bradycardia, headache, sweating, discomfort in the chest, Abdominal pain, muscle twitching, Convulsions, breathing difficulties, blurred vision, Nausea, Lachrymation, Salivation, flushing, dizziness, Vomiting, Diarrhoea, low blood pressure

#### Risks

This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.

#### Treatment

Local treatment:  
Initial treatment: symptomatic.

#### Treatment

Systemic treatment:  
Endotracheal intubation and gastric lavage, followed by administration of charcoal.  
Artificial respiration and/or oxygen may be necessary.  
Against convulsions: give diazepam. For adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v.  
Treatment for adults: for all cases a high dose of atropine (2 to 4 mg) repeated every 10 to 15 minutes as needed.  
Contraindications: oximes (pralidoxime, obidoxime), succinyl choline, aminophylline.  
Contraindications: derivatives of morphine.  
Spontaneous recovery.

---

## 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

### Specific hazards during fire fighting

Dangerous gases are evolved in the event of a fire.

### Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.  
In the event of fire, wear self-contained breathing apparatus.

### Further information



## FICAM D DP1 4X3KG BOX GB

Version 4 / GB  
102000001385

3/8  
Revision Date: 27.02.2008  
Print Date: 28.02.2008

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.

## 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.  
If spillage enters drains leading to sewage works inform local water company immediately.  
If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

### 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.

## 7. HANDLING AND STORAGE

### Handling

#### Advice on safe handling

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.  
Avoid dust formation.  
Use only in area provided with appropriate exhaust ventilation.

#### Advice on protection against fire and explosion

Dust may form explosive mixtures with air.

### Storage

#### Requirements for storage areas and containers

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.

#### Storage stability

##### Other data

Storage temperature should ideally lie between 0 and 40 °C, however, storage for two weeks at 54 °C has shown no adverse effects regarding product safety or stability.

Suitable materials

**FICAM D DP1 4X3KG BOX GB**Version 4 / GB  
1020000013854/8  
Revision Date: 27.02.2008  
Print Date: 28.02.2008

Polypropylene (PP) / Polyethylene (PE) - composite film

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

**Components with workplace control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Bendiocarb	22781-23-3	0.2 mg/m <sup>3</sup>		OES BCS*
Talc (Respirable dust.)	14807-96-6	1 mg/m <sup>3</sup> (TWA)	2007	EH40 WEL

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

## Additional Advice

OES for bendiocarb: 0.2 mg/m<sup>3</sup> (WHO)

**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory Protection	Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
Hand Protection	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.
Eye protection	Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
Skin and body protection	Wear standard coverall and type 5 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.
Hygiene measures	When using, do not eat, drink or smoke. Remove soiled clothing immediately and clean thoroughly before using again. Wash hands immediately after work, if necessary take a shower.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

**FICAM D DP1 4X3KG BOX GB**Version 4 / GB  
1020000013855/8  
Revision Date: 27.02.2008  
Print Date: 28.02.2008

Form	powder
Colour	grey white
Odour	odourless

**Safety data**

Flash point	not applicable
Bulk Density	500 - 700 kg/m <sup>3</sup>
Water solubility	immiscible

**10. STABILITY AND REACTIVITY**

Conditions to Avoid	Extremes of temperature and direct sunlight.
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under normal conditions.

**11. TOXICOLOGICAL INFORMATION**

Acute Oral Toxicity	LD50 (rat) 12,000 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 21.5 mg/l Exposure time: 6 h
Acute Dermal Toxicity	LD50 (rat) > 5,000 mg/kg
Skin Irritation	No skin irritation. (rabbit)
Eye Irritation	No eye irritation. (rabbit)
Sensitization	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test Test conducted with a similar formulation.

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

Bioaccumulation	Bluegill sunfish Bioconcentration factor (BCF): 6
-----------------	--

**Ecotoxicity effects**

Toxicity to Fish	LC50 (Cyprinodon variegatus (sheepshead minnow)) 0.86 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (Daphnia magna)) 0.0377 mg/l Exposure time: 48 h



## FICAM D DP1 4X3KG BOX GB

Version 4 / GB  
102000001385

6/8  
Revision Date: 27.02.2008  
Print Date: 28.02.2008

Toxicity to algae EC50 (Pseudokirchneriella subcapitata) 0.408 mg/l  
Exposure time: 48 h

### Further information on ecology

Additional ecological information

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

## 13. DISPOSAL CONSIDERATIONS

### Product

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

### Contaminated packaging

Empty remaining contents.

Do not use containers for other products.

Clean container with water.

Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations.

Not completely emptied packagings should be disposed of as hazardous waste.

### Waste key for the unused product

020108 agrochemical waste containing dangerous substances

## 14. TRANSPORT INFORMATION

### ADR/RID/ADNR

UN-Number	<b>3077</b>
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BENDIOCARB MIXTURE)

### IMDG

UN-Number	<b>3077</b>
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BENDIOCARB MIXTURE)

### IATA

UN-Number	<b>3077</b>
Labels	9
Packaging group	III



**FICAM D DP1 4X3KG BOX GB**

Version 4 / GB  
102000001385

7/8  
Revision Date: 27.02.2008  
Print Date: 28.02.2008

Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BENDIOCARB MIXTURE )
--------------------------	--

**UK 'Carriage' Regulations**

UN-Number	<b>3077</b>
Labels	9
Packaging group	III
Hazard no.	90
Emergency action code	2Z
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BENDIOCARB MIXTURE)

**15. REGULATORY INFORMATION**

**This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.**

Classification:

Hazard warning labelling compulsory

Hazardous components which must be listed on the label:

- Bendiocarb

Symbol(s)

N Dangerous for the environment

R-phrase(s)

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S35 This material and its container must be disposed of in a safe way.  
S57 Use appropriate container to avoid environmental contamination.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.

Further information

WHO-classification: III (Slightly hazardous)

**16. OTHER INFORMATION**

**Further information**

Text of R phrases mentioned in Section 3:

R21	Harmful in contact with skin.
R23/25	Toxic by inhalation and if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or



## FICAM D DP1 4X3KG BOX GB

Version 4 / GB  
102000001385

8/8  
Revision Date: 27.02.2008  
Print Date: 28.02.2008

policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

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