

**FICAM W**Version 4 / GB
102000002338

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Revision Date: 20.04.2010

Print Date: 12.08.2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name FICAM W
Product code (UVP) 05935598
Usage Insecticide
Company Bayer Environmental Science
230 Cambridge Science Park
Milton Road
Cambridge
Cambridgeshire CB4 0WB
Great Britain

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

Emergency telephone number 0800-220876 (UK 24 hr)
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2. HAZARDS IDENTIFICATION**Risk advice to man and the environment**

|| Toxic by inhalation and if swallowed.
|| Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Wettable powder (WP)
Bendiocarb 80% w/w

Hazardous components

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Bendiocarb	22781-23-3 245-216-8	T, N	R21, R23/25, R50/53	80.00
Sodium alkylnaphthalene sulfonate		Xi	R36	> 1.00 - < 20.00
Sulphonated aromatic polymer, sodium salt		Xi	R36/38	> 1.00 - < 20.00
Silica, amorphe	7631-86-9 231-545-4			> 1.00

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

4. FIRST AID MEASURES



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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.

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

Rinse immediately with plenty of water, also under the 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

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.) If swallowed, seek medical advice immediately and show this container or label.

Notes to physician

Symptoms

Local, The product causes irritation of eyes, skin and mucous membranes.

Symptoms

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.

Treatment

Systemic treatment:

Initial treatment: symptomatic.

In case of ingestion a 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.

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



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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, wear self-contained breathing apparatus.

Further information

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 mixture in 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

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Keep away from food, drink and animal feedingstuffs.

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 ³ (TWA)		OES BCS*
Silica, amorphe (Inhalable dust.)	7631-86-9	6 mg/m ³ (TWA)	2007	EH40 WEL
Silica, amorphe (Respirable dust.)	7631-86-9	2.4 mg/m ³ (TWA)	2007	EH40 WEL

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

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	<p>Wear respirator with a particle filter mask (protection factor 20 conforming to European Norm EN149FFP3 or EN140P3 or equivalent).</p> <p>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.</p>
Hand protection	<p>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.</p>
Eye protection	<p>Wear goggles conforming to EN166 (Field of Use 5 or equivalent).</p>
Skin and body protection	<p>Wear standard coverall and type 5 suit.</p> <p>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.</p>
Hygiene measures	<p>When using, do not eat, drink or smoke.</p> <p>Remove soiled clothing immediately and clean thoroughly before using again.</p> <p>Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.</p> <p>Wash hands immediately after work, if necessary take a shower.</p>

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9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	powder
Colour	beige
Odour	weak, characteristic

Safety data

Minimum Ignition Energy	30 - 100 mJ
Lower explosion limit	30 g/m ³
Dust Explosion Class	St2
Bulk density	ca. 250 kg/m ³
Water solubility	miscible

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) 50 mg/kg
Acute inhalation toxicity	LC50 (rat) 0.313 mg/l Exposure time: 6 h
Acute dermal toxicity	LD50 (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

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

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

Toxicity to fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 0.87 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 0.0377 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient bendiocarb.
Toxicity to algae	EC50 (<i>Pseudokirchneriella subcapitata</i>) 0.408 mg/l Exposure time: 48 h The value mentioned relates to 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

Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.

Add washings to sprayer at time of filling.

Dispose of empty and cleaned packaging safely.

Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose.

Return large containers to supplier.

Follow advice on product label and/or leaflet.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION**ADR/RID/ADNR**

UN-Number	2757
Labels	6.1
Packaging group	II
Hazard no.	60
Description of the goods	CARBAMATE PESTICIDE, SOLID, TOXIC (BENDIOCARB MIXTURE)
Tunnel Code	D/E

This classification is in principle not valid for carriage by tank vessel on inland waterways.
Please refer to the manufacturer for further information.

IMDG

UN-Number	2757
Labels	6.1
Packaging group	II
EmS	F-A , S-A
Marine pollutant	Marine Pollutant



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

UN-Number	2757
Labels	6.1
Packaging group	II
Description of the goods	CARBAMATE PESTICIDE, SOLID, TOXIC (BENDIOCARB MIXTURE)

UK 'Carriage' Regulations

UN-Number	2757
Labels	6.1
Packaging group	II
Hazard no.	60
Emergency action code	2X
Description of the goods	CARBAMATE PESTICIDE, SOLID, TOXIC (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)

	T	Toxic
	N	Dangerous for the environment

R-phrase(s)

	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.

S-phrase(s)

	S35	This material and its container must be disposed of in a safe way.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S57	Use appropriate container to avoid environmental contamination.

CLASSIFICATION ACCORDING TO SPECIFIC UK REGULATIONS:

The labelling information below is that which has been approved under 'The Control of Pesticides Regulations 1986' and/or 'Part III of the Food and Environment Protection Act 1985' and/or 'Plant Protection Product Regulations 1999' and any subsequent amendments and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this 'Safety Data Sheet'.

Symbol(s)

	T	Toxic
	N	Dangerous for the environment



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R-phrases(s)
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.

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

Further information
WHO-classification: II (Moderately 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.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
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 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.
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