

## FICAM W, FICAM W

Version 1/GB 10200025317

1/10 Revision Date: 11.12.2014 Print Date: 06.01.2015

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier** Trade name FICAM W, FICAM W Product code (UVP) 80231598 1.2 Relevant identified uses of the substance or mixture and uses advised against Use Insecticide 1.3 Details of the supplier of the safety data sheet Supplier **Bayer Environmental Science** 230 Cambridge Science Park Milton Road Cambridge Cambridgeshire CB4 0WB United Kingdom Telephone 00800-1214 9451 Telefax +44(0)1223 426240 **Responsible Department** Email: ukinfo@bayercropscience.com 1.4 Emergency telephone no. Emergency telephone no. 0800-220876 (UK 24 hr) +44(0)1635-563000 (Overseas 24 hr)

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Acute toxicity: Category 2 H300 Fatal if swallowed.

Acute toxicity: Category 2 H330 Fatal if inhaled.

Acute aquatic toxicity: Category 1 H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1H410Very toxic to aquatic life with long lasting effects.

## Classification according to EU Directives 67/548/EEC or 1999/45/EC

T Toxic, R23/25 N Dangerous for the environment, R50/53

## 2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:



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Bendiocarb



Signal word: Danger

#### Hazard statements

H300	Fatal if swallowed.
H330	Fatal if inhaled.
H410	Very toxic to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for
	use.

## **Precautionary statements**

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308 + P311	IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.
P501	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

## 2.3 Other hazards

Dust may form explosive mixture in air.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

## **Chemical nature**

Wettable powder (WP) Bendiocarb 80,0 % w/w

## Hazardous components

R-phrase(s) according to EC directive 67/548/EEC Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / Classification		Conc. [%]	
	EC-No.	EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Bendiocarb	22781-23-3 245-216-8	T; R23/25 Xn; R21 N; R50/53	Acute Tox. 3, H331 Acute Tox. 3, H301 Acute Tox. 3, H311 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	80.00
Naphthalenesulfoni c acid, butyl-, Me derivs, sodium salts	68909-83-1 272-716-3	Xi; R36	Eye Irrit. 2, H319	> 1.00 - < 5.00
Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt	68425-94-5 614-476-8	Xi; R36/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319	> 1.00 - < 5.00

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Silica, amorphe7631-86-9 231-545-4Not classifiedNot classified> 1.00	
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## **Further information**

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

## **SECTION 4: FIRST AID MEASURES**

## 4.1 Description of first aid measures

4.1 Description of mat and measures			
Remove contaminated clothing immediately and dispose of safely.			
Move the victim to fresh air and keep at rest. Call a physician or poison control center immediately.			
Immediately wash with plenty of soap and water for at least 15 minutes. If symptoms persist, call a physician.			
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.			
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 control center immediately.			
s and effects, both acute and delayed			
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			
4.3 Indication of any immediate medical attention and special treatment needed			
This product is a cholinesterase inhibitor carbamate.			
Local treatment: Initial treatment: symptomatic.			
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.			



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## **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media	
Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	High volume water jet
5.2 Special hazards arising from the substance or mixture	Dangerous gases are evolved in the event of a fire., In common with all other methyl carbamates, bendiocarb will liberate strongly lachrymatory and very toxic methyl isocyanate when heated above it's decomposition temperature which for bendiocarb is > 125 deg C. Methyl isocyanate has a very low flash point and will be readily consumed in a fire. Since methyl isocyanate readily decomposes in contact with water, all decompositions are best extinguished with water.
5.3 Advice for firefighters	
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	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.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

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.		
6.2 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).		
6.3 Methods and materials for containment and cleaning up			
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 labelled and tightly closed container. Clean floors and contaminated objects with plenty of water.		
Additional advice	Check also for any local site procedures.		
6.4 Reference to other sections	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.		



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## **SECTION 7: HANDLING AND STORAGE**

## 7.1 Precautions for safe handling

7.1 Frecautions for sale nandling			
Advice on safe handling	No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Avoid dust formation. Ensure adequate ventilation.		
Advice on protection against fire and explosion	Dust may form explosive mixture in air.		
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.		
7.2 Conditions for safe storage, including any incompatibilities			
Requirements for storage areas and containers	Store in a place accessible by authorized persons only. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight. Protect from freezing.		
Advice on common storage	Keep away from food, drink and animal feedingstuffs.		
7.3 Specific end uses	Refer to the label and/or leaflet.		

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Bendiocarb	22781-23-3	0.2 mg/m3 (TWA)		OES BCS*
Silica, amorphe (Inhalable dust.)	7631-86-9	6 mg/m3 (TWA)	12 2011	EH40 WEL
Silica, amorphe (Respirable dust.)	7631-86-9	2.4 mg/m3 (TWA)	12 2011	EH40 WEL

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

#### 8.2 Exposure controls

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.

#### 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 protectionWear a compressed air respirator (continuous flow) conforming to<br/>European norm EN14594 or EN14563-1 or equivalent or an organic<br/>gas and vapour filter mask (protection factor 20) conforming to<br/>EN136 Type A filter or equivalent.<br/>Respiratory protection should only be used to control residual risk of



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	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 of 0,4 mm). Wash when contaminated and dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and 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 coveralls and Category 3 Type 6 suit. If there is a risk of significant exposure, consider a higher protective type 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.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1 Information on basic physical and chemical properties

Form	WP-SB: powder in water soluble film bags
Colour	beige
Odour	weak, characteristic
Minimum ignition energy	< 3 mJ
Lower explosion limit	30 g/m3
Dust explosion class	St2 (Strongly explosible)
Water solubility	miscible
9.2 Other information	Further safety related physical-chemical data are not known.

## **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity	
Thermal decomposition	Stable under normal conditions.
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions.
10.4 Conditions to avoid	Extremes of temperature and direct sunlight.
10.5 Incompatible materials	Store only in the original container.
10.6 Hazardous decomposition products	No decomposition products expected under normal conditions of use.



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## **11.1 Information on toxicological effects**

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

## Assessment repeated dose toxicity

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

## **Assessment Mutagenicity**

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 developmental toxicity

Bendiocarb did not cause developmental toxicity in rats and rabbits.

## **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity	
Toxicity to fish	LC50 (Cyprinodon variegatus (sheepshead minnow)) 0.86 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (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	EC50 (Pseudokirchneriella subcapitata) 0.408 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient bendiocarb.
12.2 Persistence and degradability	
Biodegradability	Bendiocarb: not rapidly biodegradable
Кос	Bendiocarb: Koc: 33
12.3 Bioaccumulative potential	
Bioaccumulation	Bendiocarb: Bioconcentration factor (BCF) 6.0 Does not bioaccumulate.
12.4 Mobility in soil	
Mobility in soil	Bendiocarb: Mobile in soils



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## 12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment	Bendiocarb: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
12.6 Other adverse effects	
Additional ecological information	No other effects to be mentioned.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

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	<ul> <li>Small containers (&lt; 10 l or &lt; 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.</li> <li>Add washings to sprayer at time of filling.</li> <li>Dispose of empty and cleaned packaging safely.</li> <li>Large containers (&gt; 25 l or &gt; 25 kg) should not be rinsed or re-used for any other purpose.</li> <li>Return large containers to supplier.</li> <li>Follow advice on product label and/or leaflet.</li> </ul>
Waste key for the unused product	020108 agrochemical waste containing dangerous substances

## **SECTION 14: TRANSPORT INFORMATION**

#### ADR/RID/ADN

14.1 UN number	2757
14.2 Proper shipping name	CARBAMATE PESTICIDE, SOLID, TOXIC (BENDIOCARB MIXTURE)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	II
14.5 Environm. Hazardous Mark	YES
Hazard no.	60
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

14.1 UN number 14.2 Proper shipping name	2757 CARBAMATE PESTICIDE, SOLID, TOXIC (BENDIOCARB MIXTURE)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	II
14.5 Marine pollutant	YES



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IATA 14.1 UN number 14.2 Proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environm. Hazardous Mark	<b>2757</b> CARBAMATE PESTICIDE, SOLID, TOXIC (BENDIOCARB MIXTURE) 6.1 II NO
UK 'Carriage' Regulations	
14.1 UN number	
14.2 Proper shipping name	CARBAMATE PESTICIDE, SOLID, TOXIC (BENDIOCARB MIXTURE)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	
14.5 Environm. Hazardous Mark	YES
Emergency action code	2X

#### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No transport in bulk according to the IBC Code.

## **SECTION 15: REGULATORY INFORMATION**

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **UK and Northern Ireland Regulatory References**

This material may be subject to some or all of the following regulations (and any subsequent amendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

#### Transport

Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No 1348)

Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997 (SI 1997 No 2367) Air Navigation Dangerous Goods Regulations 2002 (SI 2002 No 2786)

#### Supply and Use

Chemical (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716) Chemical (Hazard Information and Packaging for Supply) (Northern Ireland) Regulations 2009 Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No 2677) EH40 Occupational Exposure Limits - Table 1 List of approved workplace exposure limits Control of Pesticide Regulations 1986 Dangerous Substances and Explosive Atmospheres Regulations 2002

## Waste Treatment

Environmental Protection Act 1990, Part II Environmental Protection (Duty of Care) Regulations 1991 The Waste Management Licensing Regulations 1994 (as amended) Hazardous Waste Regulations 2005 (Replacing Special Waste Regulations 1996 as amended) Landfill Directive Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94) Water Resources Act 1991 Anti-Pollution Works Regulations 1999



## Bayer Environmental Science

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

# BAYER

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## **Further information**

WHO-classification: II (Moderately hazardous)

## **15.2 Chemical Safety Assessment**

A chemical safety assessment is not required.

## **SECTION 16: OTHER 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.

## Text of the hazard statements mentioned in Section 3

- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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.

**Reason for Revision:** Safety Data Sheet according to Regulation (EU) No. 453/2010.

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