

# SAFETY DATA SHEET

## FICAM W

0961 2.00 GB Current 12.01.2000

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade Name	FICAM W
Product (Specification) Code	0961
Aventis CropScience Product Code	None known.
Usage	Water dispersible powder Insecticide
Appearance	Off-white powder
Manufacturer/Supplier	Aventis CropScience UK Limited
Address	Hauxton Cambridge CB2 5HU
Phone Number	01277 301125
Fax Number	01223 872142
Emergency Phone Number	0800 220876 (24 hr UK) +44 1603 242424 (24 hr Overseas)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components in Product for EC

Component Name	CAS No	Conc. %w/w	R Phrases	Classification
1. Bendiocarb	22781-23-3	80.00	R25, R21	T
2. Hydroxylated silicone dioxide	7831-86-9	5.00 < 25.00		

### 3. HAZARDS IDENTIFICATION

Main Hazards	Harmful by inhalation and if swallowed.
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### 4. FIRST-AID MEASURES

Eyes	Rinse immediately with clean water for at least 15 minutes and obtain medical aid.
Skin	Carefully remove contaminated clothing. Wash affected area with soap and water. Seek medical aid if at all worried.
Ingestion	Wash out mouth with water. Keep patient at rest and seek medical advice. Show product label or this data sheet if possible. Support respiration if needed. Only induce vomiting if the patient is fully conscious, has ingested a large amount and within 30 minutes of ingestion.
Inhalation	If inhaled, remove to fresh air and keep at rest. Obtain medical aid if at all worried.
Advice to Physicians	Please note that Bendiocarb is a rapidly reversible Carbamate Cholinesterase inhibitor. Brief Summary of Symptoms and Signs: Local eye contamination causes temporary blurred vision due to miosis. Systemic Poisoning: May cause headache , flushing , dizziness , nausea , vomiting , sweating , muscular twitching , abdominal pain , chest tightness , hypotension and bradycardia . Also blurred vision as described above for local contamination. Treatment: Local Contamination: Symptomatic after decontamination. Treat as documented above under 'First-Aid Measures'. Systemic Poisoning: In the event of ingestion the following measures should be considered: carry out endotracheal intubation followed by gastric lavage , charcoal administration and artificial respiration * (*as necessary) . Monitor CNS, respiratory and cardiac functions with specific reference to red blood cell and plasma cholinesterase levels and ECG. Antidote: Atropine sulphate, 2mg I.V. (repeat until fully atropinised). Administer Diazepam I.V. for convulsions as necessary. Contraindications: Oximes (Pralidoxime, Obidoxime).

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### 4. FIRST-AID MEASURES (continued)

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Recovery is expected to be spontaneous.  
Further advice is available from;  
Aventis CropScience UK Limited via the emergency telephone number above or  
from the nearest Poisons Unit.

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### 5. FIRE-FIGHTING MEASURES

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<b>Extinguishing Media</b>	Product is combustible. If product is involved in a fire, use water as preferred extinguishing media; foam, dry powder or CO <sub>2</sub> may also be used. See 'Special Exposure Hazards' below.
<b>Unsuitable Extinguishing Media</b>	None.
<b>Special Exposure Hazards</b>	In common with all other methyl carbamates, bendiocarb will liberate strongly lachrymatory methyl isocyanate when heated above its thermal 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.
<b>Protective Equipment for Fire-Fighting</b>	Do not breathe fumes. Wear self contained breathing apparatus.
<b>Fire Fighting Guidance</b>	If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Whenever possible, contain fire-fighting water by bunding area with sand or earth.

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### 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal Precautions</b>	Avoid contact with spilled material or contaminated surfaces. If ordinary clothing becomes contaminated remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing as detailed in Section 8.
<b>Environmental Precautions</b>	Keep people and animals away. Prevent entry into drains, sewers and watercourses. In the UK if spillage enters drains leading to sewage works inform local water company plc immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060). Overseas, inform the appropriate authority immediately.
<b>Spillages</b>	Sweep or preferably vacuum up spillage using equipment fitted with high efficiency final filter. Avoid creating a dust. Transfer collected material to heavy duty plastic drums and keep safe for disposal.
<b>Note</b>	Check also for any local site procedures in force.

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### 7. HANDLING AND STORAGE

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<b>Handling</b>	No specific precautions required when handling unopened containers; follow any relevant manual handling guidance. Refer to Section 8 if exposure to product is possible. Wash thoroughly with soap and water after handling and before eating, drinking or smoking.
<b>Storage</b>	Store in original packs/containers in a dry secure area designated for pesticides with access for authorised staff only. Store away from seeds, fertilizers and animal feedstuffs.
<b>Technical Storage Measures</b>	No special measures required.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>Occupational Exposure Standards</b>	
1. <b>Product</b>	None assigned.
2. <b>Bendiocarb</b>	WHO recommended TLV (8 hr TWA) 0.2 mg/m <sup>3</sup>
3. <b>Hydroxylated silicone dioxide</b>	UK EH40: OES 10mg/m <sup>3</sup> 8h TWA. Dust, total inhalable: UK EH40: OES 4mg/m <sup>3</sup> 8h TWA. Dust, respirable:

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

<b>Engineering Control Measures</b>	Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection.
<b>Respiratory Protection</b>	Wear approved dust mask or full-face self-contained breathing apparatus, depending upon exposure potential.
<b>Hand Protection</b>	Wear chemical resistant PVC or nitrile gloves.
<b>Eye Protection</b>	Wear safety goggles with unperforated side shield or goggles (conforming to BS EN 166 or BS 2092 for older goggles).
<b>Other</b>	Wear PVC or chemical resistant disposable overalls and PVC boots.
<b>Other Information</b>	If feasible, decontaminate protective clothing before removal. Where decontamination is not feasible (before or after removal) dispose of as contaminated waste.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Powder.
<b>Colour</b>	Off-white.
<b>Odour</b>	Faint.
<b>pH</b>	Not applicable
<b>Boiling Range/Point (deg C)</b>	Not applicable
<b>Melting Point/Freezing Point (deg C)</b>	Not determined.
<b>Flash Point (deg C)</b>	Not applicable
<b>Explosion Limits (%)</b>	Not applicable
<b>Solubility in Water</b>	Insoluble, but forms a flowable suspension
<b>Vapour Pressure</b>	Not applicable
<b>Density (g/ml)</b>	0.33. (loose)
<b>Flammability</b>	Combustible.
<b>Auto-flammability (deg C)</b>	Not determined.
<b>Explosive Properties</b>	None.
<b>Oxidising Properties</b>	None.
<b>Vapour Density (Air = 1)</b>	Not determined.
<b>Dust Explosion Data</b>	Minimum ignition energy: > 30 mJ Minimum explosible concentration: 30 to 100 g/m <sup>3</sup> St Class: 2 ( 20 l sphere )
<b>Summary/Other Data</b>	A combustible solid offering a dust explosion hazard.

### 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable at ambient conditions.
<b>Conditions to Avoid</b>	None in particular.
<b>Materials to Avoid</b>	None under normal conditions of use.

### 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	Harmful by inhalation; rat inhalational LC50 0.3 mg bendiocarb/l (6 hr). Slight and reversible irritant to the respiratory system (labelling not indicated).
<b>Skin and Eye Contact</b>	Low toxicity. Not irritating to rabbit eyes or skin. Negative in a guinea pig skin sensitisation test.
<b>Ingestion</b>	Harmful if swallowed; rat oral LD50 119 to 200 mg/kg.

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### 11. TOXICOLOGICAL INFORMATION (continued)

<b>Carcinogenicity</b>	Laboratory tests and human experience with the active ingredient give no reason to anticipate any carcinogenic hazard for man under normal conditions of use.
<b>Genotoxicity</b>	Data given in this section are for the active ingredient: Negative in a battery of genotoxicity tests.
<b>Reproductive Toxicity</b>	Laboratory tests and human experience with the active ingredient give no reason to anticipate any reproductive hazard for man under normal conditions of use.

### 12. ECOLOGICAL INFORMATION

<b>Mobility</b>	Data given in this section are for the active ingredient: Immobile to fairly mobile in soil. (depends on soil type).
<b>Persistence/Degradability</b>	Data given in this section are for the active ingredient: Soil DT50 10 days. Water DT50 48 hours (pH 7). Photolysis DT50 52 hours (pH 5). Sediment/Water System DT50 - 99 % degradation in 2 days.
<b>Bio-accumulation</b>	Data given in this section are for the active ingredient: Log P = 1.7. Bio-accumulation factor is; 70x bluegills (whole body).
<b>Aquatic Toxicity</b>	Data given in this section are for the active ingredient: 96 hr LC50 rainbow trout 1.55 mg/l, bluegill sunfish 1.65 mg/l, sheepshead minnow 0.86 mg/l, 48 hr EC50 daphnia 0.03 mg/l, 72 hr EbC50 algae 0.32 mg/l.
<b>Other Toxicity</b>	Data given in this section are for the active ingredient: Acute oral LD50 duck 3.1 mg/kg, quail 19.0 mg/kg. Toxic to the following species; bees and earthworms .

### 13. DISPOSAL CONSIDERATIONS

<b>Product Disposal</b>	Disposal of product would usually be by incineration in an appropriately licensed commercial incinerator. Small quantities may be accepted in licensed landfill sites. Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK). In the UK disposal arrangements should be in accordance with the Duty of Care Regulations and, where applicable, with the Special Waste Regulations.
<b>Container Disposal</b>	Lightly contaminated packaging may be acceptable for landfill, otherwise incineration will be required. See above for advice.

### 14. TRANSPORT INFORMATION

<b>UN Number</b>	2757
<b>UN Proper Shipping Name</b>	Carbamate pesticide, solid, toxic (contains bendiocarb 80.0 %)
<b>UN Class</b>	6.1
<b>UN Packaging Group</b>	III
<b>ADR/RID - Description</b>	2757, Carbamate pesticide, solid, toxic (contains bendiocarb 80.0 %), 6.1, 73*(c), ADR
<b>CDG(CPL) - Description</b>	2757, Carbamate pesticide, solid, toxic (contains bendiocarb 80.0 %). Class: 6.1. Hazard Identification Number: 60. Packing Group: III.
<b>IMDG - Proper Shipping Name</b>	As for UN + marine pollutant symbol used where appropriate.
<b>IMDG - Ems Number</b>	6.1 - 04
<b>IMDG - MFAG Table Number</b>	505
<b>ICAO - Proper Shipping Name</b>	As for UN.

### 15. REGULATORY INFORMATION

<b>Risk symbol</b>	 Harmful
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### 15. REGULATORY INFORMATION (continued)

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<b>Hazard Classification</b>	Xn - Harmful
<b>Designated Name</b>	Ficam W (contains bendiocarb 80.0 % )
<b>R phrases</b>	20/22-Harmful by inhalation and if swallowed.
<b>S phrases</b>	22-Do not breathe dust. 36-Wear suitable protective clothing. 45-In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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### 16. OTHER INFORMATION

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<b>MSDS first issued</b>	26 May 1999
<b>MSDS data revised</b>	12 January 2000
<b>Footnote</b>	This Safety Data Sheet was prepared in compliance with Commission Directive 93/112/EC, 67/548/EEC and 88/379/EEC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

#### Disclaimer

The above information is intended to give general health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the substance or product for which purposes the substance or product label and any appropriate technical usage literature available should be consulted and any relevant licences, 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.

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