

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).

SAFETY DATA SHEET

FICAM W

0961 2.00 GB Current 12.01.2000

4. FIRST-AID MEASURES (continued)

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.

5. FIRE-FIGHTING MEASURES

Extinguishing Media	Product is combustible. If product is involved in a fire, use water as preferred extinguishing media; foam, dry powder or CO ₂ may also be used. See 'Special Exposure Hazards' below.
Unsuitable Extinguishing Media	None.
Special Exposure Hazards	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.
Protective Equipment for Fire-Fighting	Do not breathe fumes. Wear self contained breathing apparatus.
Fire Fighting Guidance	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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	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.
Environmental Precautions	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.
Spillages	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.
Note	Check also for any local site procedures in force.

7. HANDLING AND STORAGE

Handling	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.
Storage	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.
Technical Storage Measures	No special measures required.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

SAFETY DATA SHEET

FICAM W

0961 2.00 GB Current 12.01.2000

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Engineering Control Measures	Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection.
Respiratory Protection	Wear approved dust mask or full-face self-contained breathing apparatus, depending upon exposure potential.
Hand Protection	Wear chemical resistant PVC or nitrile gloves.
Eye Protection	Wear safety goggles with unperforated side shield or goggles (conforming to BS EN 166 or BS 2092 for older goggles).
Other	Wear PVC or chemical resistant disposable overalls and PVC boots.
Other Information	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

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

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

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

SAFETY DATA SHEET

FICAM W

0961 2.00 GB Current 12.01.2000

11. TOXICOLOGICAL INFORMATION (continued)

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

Mobility	Data given in this section are for the active ingredient: Immobile to fairly mobile in soil. (depends on soil type).
Persistence/Degradability	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.
Bio-accumulation	Data given in this section are for the active ingredient: Log P = 1.7. Bio-accumulation factor is; 70x bluegills (whole body).
Aquatic Toxicity	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.
Other Toxicity	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

Product Disposal	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.
Container Disposal	Lightly contaminated packaging may be acceptable for landfill, otherwise incineration will be required. See above for advice.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Risk symbol	 Harmful
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SAFETY DATA SHEET

FICAM W

0961 2.00 GB Current 12.01.2000

15. REGULATORY INFORMATION (continued)

Hazard Classification	Xn - Harmful
Designated Name	Ficam W (contains bendiocarb 80.0 %)
R phrases	20/22-Harmful by inhalation and if swallowed.
S phrases	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).

16. OTHER INFORMATION

MSDS first issued	26 May 1999
MSDS data revised	12 January 2000
Footnote	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.
