



Bayer Environmental Science

FICAM W WSS

Version 2
Revision Date 07.01.2003

GB
102000002322

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

Trade name : FICAM W WSS
 Product code : AE B052020 00 WP80 A3
 Product code : CR16851
 Specification : 20918
 Usage : insecticide
 Company : Bayer Environmental Science
 Durkan House
 214-224 High Street
 Waltham Cross
 Hertfordshire EN8 7DP
 United Kingdom
 Telephone : +44(0)1992 784270
 Telefax : +44(0)1992 784276
 Emergency telephone number : 0800-220876 (UK only)
 +44(0)1223-870312

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

Wettable powder (WP), contains:
Bendiocarb 80%

Hazardous components

| Chemical Name | CAS-No. | Symbol(s): | R-phrases) | Concentration [%] |
|--|------------|------------|-------------------------|-------------------|
| Bendiocarb (iso) | 22781-23-3 | T, N | R21 R23/25 R50/53 | 80.00 |
| Sodium alkynaphthalene sulfonate | | Xi | R36/38 | > 1.00 - < 5.00 |
| Alkylated naphthalene sulfonate, formaldehyde polymer, sodium salt | | Xi | R36/38 | > 1.00 - < 5.00 |
| Silica, amorphe | 7631-86-9 | | | > 5.00 - < 25.00 |

3. 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.

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4. FIRST AID MEASURES

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| General advice | : | Remove contaminated, soaked clothing immediately and dispose of safely. |
| Inhalation | : | Move the patient to fresh air and keep at rest. Seek medical advice immediately. |
| Skin contact | : | Wash off immediately with soap and plenty of water. Seek medical advice immediately. |
| Eye contact | : | In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| Ingestion | : | Induce vomiting if patient is fully conscious, time since ingestion is less than 30 minutes and medical aid is not readily available (Vomit should not get into the respiratory tract). Wash out mouth with water. Seek URGENT medical advice. |

Notes to physician

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| Symptoms | : | Local:, May cause skin and eye irritation. |
| Symptoms | : | Systemic:, headache, sweating, lachrymation, salivation, flushing, dizziness, nausea, vomiting, diarrhoea, Abdominal pains, discomfort in the chest, lowered blood pressure, bradycardia/tachycardia, blurred vision, muscle twitching, convulsions, breathing difficulties |
| 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 should be symptomatic and supportive. |
| Treatment | : | Systemic treatment: Endotracheal intubation should be done and gastric lavage performed, 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, oblidoxime), succinyl choline, aminophylline Contraindications: derivatives of morphine Recovery: Spontaneous. |

5. FIRE-FIGHTING MEASURES

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| Suitable extinguishing media | : | water spray jet carbon dioxide (CO ₂) dry powder |
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| | foam |
| Extinguishing media which must not be used for safety reasons | : high volume water jet |
| Specific hazards during fire fighting | : In case of fire the evolution of dangerous gases is possible. |
| Special protective equipment for fire-fighters | : In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary. |
| 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 bunding area with sand or earth. |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|---------------------------|---|
| Personal precautions | : Avoid dust formation. Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. |
| Environmental precautions | : Keep people and animals away. Do not discharge into the drains/surface water/groundwater. 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 | : Vacuum up spilled product Transfer collected material to heavy duty plastic drums and keep safe for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations |
| 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**

- | | |
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| Advice on safe handling | : No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Avoid dust formation. Provide good ventilation of working area (local exhaust |
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ventilation if necessary).

Advice on protection against fire and explosion : The product is combustible.
Dust can form an explosive mixture with air.

Storage

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Store in a place accessible by authorized persons only.

Further information on storage conditions : Protect against heat and direct sunlight
Protect against moisture.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

Storage temperature : 0 - 30 °C

Suitable materials : Keep in original packaging, tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to COSHH assessment (Control of substances Hazardous to Health Regulations 1999 as amended). Engineering controls should be used in preference to personal protective equipment wherever practicable.

Components with workplace control parameters

| Components | CAS-No. | Control parameters | Update | Basis |
|-----------------|-----------|-----------------------------|--------|----------|
| Silica, amorphe | 7631-86-9 | 2.4 mg/m ³ (TWA) | 2001 | EH40 OES |
| | | 6 mg/m ³ (TWA) | 2001 | EH40 OES |

Additional advice : OES for bendiocarb 0.2 mg/m³ (WHO)

Personal protective equipment

Respiratory protection : Dust mask

Hand protection : Chemical resistant gloves
PVC gloves
nitrile gloves

Eye protection : Chemical resistant goggles must be worn.

Skin and body protection : Light protective clothing, PVC
PVC boots

Hygiene measures : When using, do not eat, drink or smoke.
Remove soiled clothing immediately.
Remove soaked clothing immediately.
Clean hands and face at work intervals and after work.
Work in an adequately ventilated room.



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9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form : Powder
Colour : off-white

Safety data

Minimum ignition energy : 30 - 100 mJ
Lower explosion limit : 30 g/m³
Dust explosion class : St 2
Bulk density : 0.25 kg/m³
Water solubility : Note: Miscible
Partition coefficient (n-octanol/water) : log Pow: 1.7
at: 25 °C Note: The value mentioned relates to the active ingredient Bendiocarb.
Other information : Combustible solid product.

10. STABILITY AND REACTIVITY

Conditions to avoid : Note: Extremes of temperature and direct sunlight.
Materials to avoid : None
Hazardous reactions : No hazardous reactions when stored and handled according to prescribed instructions.
Note: Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 (rat) 141 mg/kg
Acute inhalation toxicity : LC50 (rat) 0.55 mg/l
Exposure time: 4 h
Test substance: The value mentioned relates to the active ingredient Bendiocarb.
Acute dermal toxicity : LD50 (rat) > 2,000 mg/kg
Skin irritation : rabbit
Result: No skin irritation
Eye irritation : rabbit
Result: No eye irritation



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Sensitization : Maximisation Test (GPMT) guinea pig
Result: non-sensitizing

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

Bioaccumulation : Bluegill sunfish
Bioconcentration factor (BCF): 64.8
Test substance: The value mentioned relates to the active ingredient Bendiocarb.

Ecotoxicity effects

Toxicity to fish : LC50: 0.87 mg/l
Rainbow trout
Exposure time: 96 h

Toxicity to fish : LC50: 2.2 mg/l
Lepomis macrochirus (Bluegill sunfish)
Exposure time: 96 h

Toxicity to daphnia : EC50: 3.7 mg/l
Water flea (Daphnia magna)
Exposure time: 48 h
Test substance: The value mentioned relates to the active ingredient Bendiocarb.

Toxicity to algae : 1.71 mg/l
Selenastrum capricornutum
Exposure time: 72 h
Test substance: The value mentioned relates to the active ingredient Bendiocarb.

Toxicity to other organisms : LD50: 3.1 mg/kg
Mallard duck
Test substance: The value mentioned relates to the active ingredient Bendiocarb.

Toxicity to other organisms : LD50: 19 mg/kg
Bobwhite quail
Test substance: The value mentioned relates to the active ingredient Bendiocarb.

13. DISPOSAL CONSIDERATIONS

Product : In accordance with current regulations may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority
Can be landfilled or incinerated, when in compliance with local regulations.

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Contaminated packaging

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

: Packaging that cannot be cleaned should be disposed of as product waste.
Empty containers can be landfilled, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

14. TRANSPORT INFORMATION

| | | |
|----------------|------------------------------|---|
| ADR/RID | : UN-No | 2757 |
| | Class | 6.1 |
| | Packaging group | III |
| | Hazard no. | 60 |
| | Description of the goods | 2757 CARBAMATE PESTICIDE, SOLID, TOXIC (BENDIOCARB) |
| ADNR | : UN-No | 2757 |
| | Class | 6.1 |
| | Item | 73 |
| | Letter | c |
| | Description of the goods | 2757 Carbamate pesticide, solid, toxic (BENDIOCARB) |
| IMDG | : UN-No | 2757 |
| | Class | 6.1 |
| | Packaging group | III |
| | EmS | 6.1-04 |
| | Marine pollutant | P |
| | Description of the goods | CARBAMATE PESTICIDE, SOLID, TOXIC (BENDIOCARB 80%) |
| IATA | : UN-No | 2757 |
| | Class | 6.1 |
| | Packaging group | III |
| | Description of the goods | Carbamate pesticide, solid, toxic (BENDIOCARB 80%) |
| CDG CPL | : UN-No | 2757 |
| | Class | 6.1 |
| | Packaging group | III |
| | Hazard identification number | 60 |
| | Emergency action code | 2X |
| | Proper shipping name | CARBAMATE PESTICIDE, SOLID, TOXIC (BENDIOCARB) |

15. REGULATORY INFORMATION

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

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Hazardous components which must be listed on the label:

- Bendiocarb (iso)

| | | |
|---|---|---|
| Exceptional labelling of special preparations | : | Restricted to professional users. To avoid risks to man and the environment, comply with the instructions for use. |
|---|---|---|

| | | |
|-------------|-----------------------------|--|
| Symbol(s): | : T N | Toxic Dangerous for the environment |
| R-phrase(s) | : R23/25 R50/53 | Toxic by inhalation and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| S-phrase(s) | : S35 S45 S57 | This material and its container must be disposed of in a safe way. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). Use appropriate containment to avoid environmental contamination. |

16. OTHER INFORMATION**Further information**

Text of R phrases mentioned in Section 2:

| | |
|--------|--|
| R21 | Harmful in contact with skin. |
| R23/25 | Toxic by inhalation and if swallowed. |
| 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.



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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 will be highlighted in the margin. This version replaces all previous versions.