

# SAFETY DATA SHEET



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<b>1) IDENTIFICATION OF THE SUBSTANCE / PREPARATION</b>				
Commercial name:	<b>FICAM® VC</b>			
Usage:	Insecticide			
Company identification:	Bayer (Pty.) Ltd. Reg. No. 1968/011192/07 P.O. Box 143, Isando 1600 SOUTH AFRICA			
Telephone:	+27 11 365 8600 +27 11 921 5911			
Fax:	+27 11 921 5754			
Responsible department:	Product Development and Regulatory Affairs +27 11 921 5310/5663/5471/5639 simon.lowe@bayer.com			
In case of poisoning emergencies:				
Bayer (office hours only):	+27 11 921 5310/5663/5471/5639			
Tygerberg Poison Centre:	+27 21 931 6129			
Griffon Poison Information Centre:	+27 82 446 8946			
<b>2) HAZARD IDENTIFICATION OF THE PRODUCT</b>				
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.			
<b>3) COMPOSITION / INFORMATION ON THE INGREDIENTS</b>				
Chemical nature: Wettable powder (WP) Bendiocarb 80 % w/w/				
Hazardous components:				
<b>Chemical Name</b>	<b>CAS-No. / EINECS-No.</b>	<b>Symbol(s)</b>	<b>R-phrases(s)</b>	<b>Concentration [%]</b>
Bendiocarb	22781-23-3 245-216-8	T, N	R21, R23/25, R50/53	80,00
Sodium alkyl-naphthalene sulfonate		Xi	R36/38	> 1,00 - < 5,00
Sulphonated aromatic polymer, sodium salt		Xi	R36/38	> 1,00 - < 5,00
For the full text of the R-phrases mentioned in this Section, see Section 16.				
<b>4) FIRST AID MEASURES</b>				
General advice:	Remove contaminated clothing immediately and dispose of safely.			
Eye contact:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.			
Skin contact:	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Call a physician or poison control center immediately.			
Ingestion:	Call a physician or poison control center immediately. 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.)			
Inhalation:	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.			
Notes to physician:				
Symptoms: 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.			
Risks:	This product contains a cholinesterase inhibitor carbamate.			
Treatment: Local treatment:	Initial treatment should be symptomatic and supportive.			
Systemic treatment:	In case of ingestion a gastric lavage within the first hour after ingestion and after			

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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 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 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.  
 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: Keep container tightly closed in a dry and well-ventilated place.  
 Store in a place accessible by authorized persons only.  
 Keep away from heat.  
 Keep away from direct sunlight.  
 Protect against moisture.  
 Advice on common storage: Keep away from food, drink and animal feedingstuffs.  
 Temperature tolerance: -10 °C – 40 °C

## 8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters:

Components	CAS-No.	Control parameters	Update	Basis
Bendiocarb	22781-23-3	0,2 mg/m <sup>3</sup> (TWA)		OES BCS*

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

Personal protective equipment: During application: Wear full protective clothing - overall, rubber boots, gloves and suitable face mask.  
 During manufacture: Wear respirator with a particle filter mask (protection factor 20), CE marked nitrile rubber gloves, goggles conforming to EN166, standard overall and type 5 suite.

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Hygiene measures: When using, do not eat, drink or smoke.  
Remove soiled clothing immediately and clean thoroughly before using again.  
Wash hands immediately after work, if necessary take a shower.

## 9) PHYSICAL AND CHEMICAL PROPERTIES

Form: Powder  
Colour: Beige  
Odour: Weak, characteristic  
Minimum ignition energy: 30 - 100 mJ  
Lower explosion limit: 30 g/m<sup>3</sup>  
Dust explosion class: St2  
Bulk density: Approx. 250 kg/m<sup>3</sup>  
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 toxicity:  
LD<sub>50</sub> oral, rat: 50 mg/kg  
LD<sub>50</sub> dermal, rat: > 2000 mg/kg  
LC<sub>50</sub> inhalation, rat: 0,313 mg/l  
Exposure time: 6 h  
Skin irritation: No skin irritation (rabbit)  
Eye irritation: No eye irritation (rabbit)  
Sensitization: Non-sensitizing (guinea pig)  
OECD Test Guideline 406, Magnusson & Kligman test

## 12) ECOLOGICAL INFORMATION

Elimination information (persistence and degradability):  
Bioaccumulation: Bluegill sunfish  
Bioconcentration factor (BCF): 6  
The value mentioned relates to the active ingredient bendiocarb.  
Ecotoxicity effects:  
Toxicity to fish:  
LC<sub>50</sub> (Rainbow trout (*Oncorhynchus mykiss*)): 0,87 mg/l  
Exposure time: 96 h  
Toxicity to daphnia:  
EC<sub>50</sub> (Water flea (*Daphnia magna*)): 0,0377 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient bendiocarb.  
Toxicity to algae:  
EC<sub>50</sub> (*Pseudokirchneriella subcapitata*): 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.  
Contaminated packaging: Triple rinse containers.  
Do not re-use empty containers.

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Not completely emptied packaging should be disposed of as hazardous waste.

## 14) TRANSPORT INFORMATION

UN Number: 2757

Class 6.1

IMDG: 6195

Ems: 6.1 – 04

MFAG: 505

Subsidiary risk: •

Packing Group: II

Declaration for land shipment: 2757 CARBAMATE PESTICIDE, SOLID, TOXIC (bendiocarb mixture)

Declaration for sea shipment: 2757 CARBAMATE PESTICIDE, SOLID, TOXIC (bendiocarb mixture)

Declaration for shipment by air: 2757 CARBAMATE PESTICIDE, SOLID, TOXIC (bendiocarb mixture)

## 15) REGULATORY INFORMATION

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.

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

WHO Classification: II (Slightly hazardous).

## 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.

R36/38: Irritating to eyes and skin.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

Consult the label for the instructions for use.

THIS INFORMATION CONCERNS ONLY THE PRODUCT AS CONFORMING TO ITS SPECIFICATIONS AND LIMITED TO THE USES HEREIN STATED.

This sheet complements the technical sheet of use but does not replace it. The information contained on this sheet is based on knowledge of the product on the date of publication. It is given in good faith.

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