

1/10

FICAM W INSECTICIDE

Version 1 / NZ Revision Date: 16.01.2018 102000002338 Print Date: 19.01.2018

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

1.1 Product identifier

Trade name FICAM W INSECTICIDE

Product code (UVP) 05935598

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide EPA-Nr. HSR000451

1.3 Details of the supplier of the safety data sheet

Supplier Bayer CropScience Pty Ltd

Level 1, 8 Redfern Road, Hawthorn East, Vic 3123

Australia

Telephone +61 3 9248 6612

Telefax +61 3 9248 6800

Local agent Bayer New Zealand Limited

3 Argus Place Hillcrest Auckland 0627 New Zealand

Telephone: 0800 428 246 Telefax: (09) 441 8645

1.4 Emergency telephone no.

Emergency Number 0800 734 607 (24hr)

Global Incident Response

Hotline (24h)

+1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science Division)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001

6.1B

H300 Fatal if swallowed.

6.1D

H312 Harmful in contact with skin.

6.1C

H331 Toxic if inhaled.



2/10

FICAM W INSECTICIDE

Version 1 / NZ
102000002338

Revision Date: 16.01.2018
Print Date: 19.01.2018

6.9A

H372 Causes damage to organs through prolonged or repeated exposure.

9.1A

H410 Very toxic to aquatic life with long lasting effects.

9.3A

H431 Very toxic to terrestrial vertebrates.

9.4A

H441 Very toxic to terrestrial invertebrates.

2.2 Label elements

Labelling in accordance with Hazardous Substances Identification Regulations 2001

Hazard label for supply/use required.







Signal word: Danger Hazard statements

11000	Establit accellance of
H300	Fatal if swallowed.

H312 Harmful in contact with skin.

H331 Toxic if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

H431 Very toxic to terrestrial vertebrates.H441 Very toxic to terrestrial invertebrates.

Precautionary statements

P102 Keep out of reach of children.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor/ physician.
P321 Specific treatment (see supplemental first aid instructions on this label).

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local regulation.

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 % w/w

Hazardous components

Name	CAS-No.	Conc. [%]
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3/10

FICAM W INSECTICIDE

Version 1 / NZ

102000002338

Revision Date: 16.01.2018

Print Date: 19.01.2018

Bendiocarb	22781-23-3	80.00
Naphthalenesulfonic acid, butyl-, Me derivs, sodium salts	68909-83-1	> 1.00 - < 5.00
Naphthalene and alkyl naphthalene sulphonic acids formaldehyde condensate, sodium salt	68425-94-5	> 1.00 - < 5.00

Further information

Bendiocarb	22781-23-3	M-Factor: 10 (acute), 100 (chronic)
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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice Move out of dangerous area. Place and transport victim in stable

position (lying sideways). Remove contaminated clothing immediately

and dispose of safely.

Inhalation Move to fresh air. Keep patient warm and at rest. Call a physician or

poison control center immediately.

Skin contact Wash off thoroughly with plenty of soap and water, if available with

polyethyleneglycol 400, subsequently rinse with water. If symptoms

persist, call a physician.

Eye contact 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.

Ingestion Call a physician or poison control center immediately. 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.)

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

Risks This product is a cholinesterase inhibitor carbamate.



4/10

FICAM W INSECTICIDE

Version 1 / NZ Revision Date: 16.01.2018 102000002338 Print Date: 19.01.2018

Treatment

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.

Contact the National Poisons and Hazardous Chemicals Information center in Dunedin, PO Box 913, Dunedin. Phone 0800 POISON (0800 764 766).

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 firefighters

In the event of fire and/or explosion do not breathe fumes. In the event

of fire, wear self-contained breathing apparatus.

Further information Contain the spread of the fire-fighting media. Do not allow run-off from

fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Avoid dust formation. Avoid contact with spilled product or

contaminated surfaces. Use personal protective equipment. Remove

all sources of ignition.

6.2 Environmental precautions

Do not allow to get into surface water, drains and ground water.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning upSweep 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.



5/10

FICAM W INSECTICIDE

Version 1 / NZ

102000002338

Revision Date: 16.01.2018

Print Date: 19.01.2018

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.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling 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.

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.

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 applicable. Protect from fronting. Store in original containers

direct sunlight. Protect from freezing. Store in original container.

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

Suitable materials Polyethylene film within an outer package

7.3 Specific end use(s) 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		OES BCS*
		(TWA)		

^{*}OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

8.2 Exposure controls

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 protection Wear a compressed air respirator (continuous flow) conforming to

European Norm EN14594 or EN14593-1 or equivalent or a particle



6/10

FICAM W INSECTICIDE

Version 1 / NZ Revision Date: 16.01.2018 102000002338 Print Date: 19.01.2018

filter mask (protection factor 40) conforming to EN136P3 or

equivalent.

Respiratory protection should only be used to control residual risk of 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 Please observe the instructions regarding permeability and

breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the

contact time.

Wash gloves when contaminated. 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.

Material Nitrile rubber

Rate of permeability > 480 min
Glove thickness > 0.4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

Eye protection Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection Wear standard coveralls and Category 3 Type 5 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 powder Colour beige

Odour weak, characteristic

pH 4.5 - 7.5 at 1 % (23 °C) (deionized water)

Minimum ignition energy < 3 mJ (23 °C)

Lower explosion limit 30 g/m3

Bulk density ca. 0.25 g/ml (loose)

Water solubility miscible

Partition coefficient: n-

octanol/water

Bendiocarb: log Pow: 1.7 at 25 °C

9.2 Other information Further safety related physical-chemical data are not known.



7/10

FICAM W INSECTICIDE

Version 1 / NZ

102000002338

Revision Date: 16.01.2018
Print Date: 19.01.2018

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition from 150 °C, Heating rate: 3 K/min, Decomposition energy: 450 KJ/kg

Exothermic decomposition.

from 120 °C, Heating rate: 0.05 K/min

Exothermic decomposition.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility ofNo hazardous reactions when stored and handled according to

hazardous reactions 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.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Determined in the form of a respirable fine dust.

Acute dermal toxicityLD50 (Rat) > 2,000 mg/kgSkin irritationNo skin irritation (Rabbit)Eye irritationNo eye irritation (Rabbit)SensitisationNon-sensitizing. (Guinea pig)

OECD Test Guideline 406, Magnusson & Kligman test

Assessment STOT Specific target organ toxicity - single exposure

Bendiocarb: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity - repeated exposure

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.



8/10

FICAM W INSECTICIDE

Version 1 / NZ

102000002338

Revision Date: 16.01.2018

Print Date: 19.01.2018

Assessment developmental toxicity

Bendiocarb did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Cyprinodon variegatus (sheepshead minnow)) 0.86 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient bendiocarb.

Toxicity to aquatic

Exposure time: 48 h

invertebrates

The value mentioned relates to the active ingredient bendiocarb.

EC50 (Daphnia magna (Water flea)) 0.0377 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

Koc 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

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 Dispose of this product only by using according to the label, or at an

approved landfill or other approved facility.



9/10

FICAM W INSECTICIDE

Version 1 / NZ Revision Date: 16.01.2018 102000002338 Print Date: 19.01.2018

Contaminated packaging Tr

Triple rinse containers. Recycle if possible. If allowed under local authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose.

SECTION 14: TRANSPORT INFORMATION

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

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
14.5 Environm. Hazardous Mark
Hazchem Code
2X

IMDG

14.1 UN number **2757**

14.2 Proper shipping name CARBAMATE PESTICIDE, SOLID, TOXIC

(BENDIOCARB MIXTURE)

14.3 Transport hazard class(es)14.4 Packing group14.5 Marine pollutant14.5 Marine pollutant14.5 Marine pollutant

IATA

14.1 UN number **2757**

14.2 Proper shipping name CARBAMATE PESTICIDE, SOLID, TOXIC

(BENDIOCARB MIXTURE)

14.3 Transport hazard class(es)14.4 Packing group14.5 Environm. Hazardous MarkNO

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 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

Further information

HSNO approval-Nr. HSR000451

HSNO Controls See www.epa.govt.nz
ACVM Condition See www.foodsafety.govt.nz



10/10

FICAM W INSECTICIDE

Version 1 / NZ Revision Date: 16.01.2018 102000002338 Print Date: 19.01.2018

Other product approvals

Approved Maintenance Compound Type B

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

Conc. Concentration

ECx Effective concentration to x %

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

EN European Standard EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code) Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

ICx

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

TWA Time weighted average

UN United Nations

WHO World health organisation

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.

Reason for Revision: Section 2: Hazards Identification. Section 9: Physical and Chemical

Properties.

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