

# **VECTOBAC<sup>®</sup> G BIOLOGICAL INSECTICIDE**

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Product Use: Company:

#### VectoBac G Biological Insecticide

Biological Insecticide for control of mosquitoes Sumitomo Chemical Australia Pty Ltd A.B.N. 21 081 096 255 242 Beecroft Road, Epping NSW 2121 (02) 8752 9000 (Mon–Fri 8am–5pm EST) 1800 024 973 (24 hours) (EMERGENCIES ONLY)

# Address: Telephone Number: Emergency Telephone Number:

# **SECTION 2: HAZARDS IDENTIFICATION**

Approved Criteria Classification: SUSDP Classification: ADG Classification: Active Constituent	Non-hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC). Not Scheduled Not a Dangerous Good NOHSC exposure standards have not been assigned for the active ingredient in the formulation.
EMERGENCY OVERVIEW	,

#### Colour: Physical description: Odour: Major health hazards:

Tan granule Mild fermentation (malt) odour Product is non-toxic by ingestion, skin contact or inhalation. Direct contact with eyes or skin may cause mild irritation.

# POTENTIAL HEALTH EFFECTS

Acute Toxicity: Product is non-toxic by ingestion, skin contact or inhalation. Direct contact with eyes and skin may cause mild irritation.

**Signs and Symptoms of Systemic Effects:** Direct contact with eyes may cause mild irritation. Inhalation of dust may result in respiratory tract irritation

Eye:Non IrritantSkin:Non irritantIngestion:Not a likely route of exposureInhalation:Not a likely route of exposure

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS number	Proportion
Bacillus thuringiensis subsp israelensis	68038-71-1	<5%
Other ingredients determined not to be hazardous		to 100%

#### SECTION 4: FIRST AID MEASURES

Scheduled Poisons:	Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons. Telephone: 131126 (Australia).
Eye contact:	Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
Skin contact:	Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
Ingestion:	Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
Inhalation:	Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
Note to physician:	No known antidote, provide symptomatic/supportive care as necessary.

## **SECTION 5: FIRE FIGHTING MEASURES**

Fire and Explosion Hazards:	Not flammable.
Extinguishing Media: Hazardous Decomposition Products:	Use appropriate medium for the underlying cause of the fire. None

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Hazardous reactions:	None. Hazardous polymerisation will not occur.
Materials to avoid:	None
Fire Fighting:	Wear protective clothing and self-contained breathing apparatus.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### **Observe precautions in Section 8: Personal Protection**

Stop the source of the spill if it is safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water.

#### FOR SPILLS ON LAND

CONTAINMENT:Avoid runoff into storm sewers or other bodies of water.CLEANUP:Recover product. Place into appropriate container for disposal. Avoid dust.<br/>Ventilate and wash the spill area. Pick up wash liquid with additional absorbent<br/>and place in a chemical waste container.

# FOR SPILLS IN WATER CONTAINMENT: Avoid runoff into storm sewers or other bodies of water. Isolate contaminated water.

**CLEANUP:** Remove contaminated water for treatment or disposal.

## SECTION 7: HANDLING AND STORAGE

Keep out of reach of children. Keep pesticide in original container. Do not store near flame, sparks or hot surfaces. Do not store or transport near food or feed. Do not contaminate food or feed. Do not put into food or drink containers. Store in a cool, dry place, out of direct sunlight.

## **SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

EYE PROTECTION:	Not usually required. Eye contact can be avoided by wearing protective eyewear.
RESPIRATION/VENTILATION:	Not usually required. If necessary use a respirator with a dust/mist filter. Use only in well ventilated areas.
SKIN PROTECTION:	Skin contact should be minimised by wearing protective clothing including impervious gloves. Wash thoroughly with soap and water after handling.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: ODOUR:	Tan granular solid Mild fermentation (malt) odour
MELTING/FREEZING POINT:	Not
BOILING POINT:	NA
BULK DENSITY:	$0.4\pm0.06~\mathrm{g/mL}$
SOLUBILITY:	Suspends and partially soluble in water
VAPOUR PRESSURE:	NA
pH:	$5.4 \pm 1.0$ (10% slurry)

## SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable. No oxidising or reducing properties.
INCOMPATIBILITY:	Alkalinity inactivates product.
HAZARDOUS	None that are known.
DECOMPOSITION PRODUCTS:	Hazardous polymerisation will not occur.

# SECTION 11: TOXICOLOGICAL INFORMATION

## Acute (Product Specific)

Eye irritation:	
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Acute (i roudet opcome)	
Eye irritation:	N/D. VectoBac Technical Powder was mildly irritating in an eye
	irritation test in rabbits.
Oral LD <sub>50</sub> (rat):	>5,000 mg/kg (rat)
Dermal LD <sub>50</sub> (rabbits):	>5,000 mg/kg (rabbit)
Inhalation toxicity:	N/D. >2.84 mg/L (rat). No lethality was observed in rats after a 4
	hour exposure at the highest obtainable inhalation exposure
	chamber concentration to VectoBac Technical Powder.
Irritation of the skin (rabbits):	N/D. Transient, slight or mild irritation noted in a dermal toxicity
	study with VectoBac Technical Powder.
Sensitisation:	N/D.
Chronic/Carcinogenicity	
No adverse effects known. None of the components are classified as carcinogens.	

# **Teratology (Birth Defects) Information**

No adverse effects known

## **Reproduction Information**

No adverse effects known

#### SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate	
Hydrolysis:	Not available
Photolysis:	Not available
Soil half life:	Not available
Water solubility:	Not available
Ecotoxicity	
Avian	Low Toxicity to fish and wildlife
Aquatic	Low Toxicity to fish and wildlife
Other non-target organisms	Low Toxicity to fish and wildlife. VectoBac G is toxic only to the larvae of certain diptera. It does not harm other aquatic, marine or terrestrial fauna.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Puncture, or shred and bury empty containers in a local authority landfill. If not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

#### SECTION 14: TRANSPORT INFORMATION

Store in the closed, original container in a well-ventilated area, as cool as possible. Keep out of reach of children. Do not store in direct sunlight. This product is a biological larvicide containing crystals of protein and bacterial spores. Activity can be impaired unless product is protected from high temperature at all times. When transporting keep shaded. Avoid standing containers in direct sunlight in the field or on airstrips. Do not leave in car boot or other enclosed space on a sunny day. Do not store at 30°C or above.

ADG Code:Not a Dangerous GoodHAZCHEM Code:Not Applicable

#### **SECTION 15: REGULATORY INFORMATION**

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA).

#### **SECTION 16: OTHER INFORMATION**

Abbreviations:NANot ApplicableNDANo Data Available

Revision date:September 2009Revision number:1

THE INFORMATION GIVEN IN THIS MSDS IS BASED ON DATA AVAILABLE TO US AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT SUMITOMO CHEMICAL AUSTRALIA TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS.