



# SUMITOMO CHEMICAL

## SAFETY DATA SHEET

### VectoBac 12AS Biological Insecticide

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, February 2016

#### SECTION 1: Identification: Product identifier and chemical identity

##### Product identifier

**Product name** VectoBac 12AS Biological Insecticide

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

**Application** Insecticide

**Uses advised against** No specific uses advised against are identified.

##### Details of the supplier of the safety data sheet

**Supplier** www.sumitomo-chem.com.au  
Sumitomo Chemical Australia Pty Ltd  
Level 5, 51 Rawson Street,  
EPPING, NSW 2121  
(02) 8752 9000  
(02) 8752 9099  
Reception@sumitomo-chem.com.au

##### Emergency telephone number

**Emergency telephone** 1800 024 973 (Australia) 0800 243 6225 (New Zealand)

#### SECTION 2: Hazard(s) identification

##### Classification of the substance or mixture

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Not Classified

##### Label elements

**Hazard statements** Not Classified

##### Other hazards

This product does not contain any substances classified as PBT or vPvB.

#### SECTION 3: Composition and information on ingredients

##### Substances

Other, non-hazardous ingredients	88.4%
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Bacillus thuringiensis subsp. israelensis	11.6%
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CAS number: 68038-71-1

**Product name** VectoBac 12AS Biological Insecticide

## VectoBac 12AS Biological Insecticide

### SECTION 4: First aid measures

#### Description of first aid measures

<b>General information</b>	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues.
<b>Ingestion</b>	No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.
<b>Skin Contact</b>	No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Rinse with water. Get medical attention if any discomfort continues.
<b>Protection of first aiders</b>	Use protective equipment appropriate for surrounding materials.

#### Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms known. Spray/mists may cause respiratory tract irritation.
<b>Ingestion</b>	May cause discomfort.
<b>Skin contact</b>	May cause slight irritation.
<b>Eye contact</b>	No specific symptoms known. May be slightly irritating to eyes.

#### Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
<b>Specific treatments</b>	No special treatment required.

### SECTION 5: Firefighting measures

#### Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

#### Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

#### Advice for firefighters

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
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**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to Australia/New Zealand Standards AS/NZS 4967 (for clothing) AS/NZS 1801 (for helmets), AS/NZS 4821 (for protective boots), AS/NZS 1801 (for protective gloves) will provide a basic level of protection for chemical incidents.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** No specific recommendations. For personal protection, see Section 8. Avoid contact with skin and eyes.

#### Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

#### Methods and material for containment and cleaning up

**Methods for cleaning up** Reuse or recycle products wherever possible. Absorb spillage to prevent material damage. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

#### Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

### SECTION 7: Handling and storage, including how the chemical may be safely used

#### Precautions for safe handling

**Usage precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on general occupational hygiene** Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** No specific recommendations.

**Storage class** Unspecified storage.

#### Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls and personal protection

#### Control parameters

#### Occupational exposure limits

No value assigned for this specific material by Safe Work Australia

#### Exposure controls

##### Protective equipment



**Appropriate engineering controls** No specific ventilation requirements.

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<b>Eye/face protection</b>	No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
<b>Hand protection</b>	It is recommended that chemical-resistant, impervious gloves are worn. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with Australia/New Zealand Standard AS/NZS 2161. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>Hygiene measures</b>	Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
<b>Respiratory protection</b>	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
<b>Environmental exposure controls</b>	Not regarded as dangerous for the environment.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Colour</b>	Light brown.
<b>Odour</b>	Malt-like
<b>pH</b>	5.0 (1% w/v )
<b>Relative density</b>	1.06 @ 20°C

### SECTION 10: Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

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<b>Notes (oral LD<sub>50</sub>)</b>	>5,000 mg/kg, , Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Notes (dermal LD<sub>50</sub>)</b>	>5,000 mg/kg, , Rabbit
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	>5.34 mg/l, (4 hr), Rabbit
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Slightly irritating. (Rabbit)
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Slightly irritating. (Rabbit)
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b>IARC carcinogenicity</b>	None of the ingredients are listed or exempt.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Not classified as a specific target organ toxicant after a single exposure.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Based on available data the classification criteria are not met.
<b><u>General information</u></b>	
<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Eye contact</b>	May be slightly irritating to eyes.
<b>Route of entry</b>	Ingestion Inhalation Skin and/or eye contact
<b>Target Organs</b>	No specific target organs known.

### SECTION 12: Ecological Information

<b>Ecotoxicity</b>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
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<b>Toxicity</b>	Based on available data the classification criteria are not met.
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hour: >370 mg/l, Onchorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	LC <sub>50</sub> , 48 hour: >50 mg/l, Daphnia magna
<b>Acute toxicity - terrestrial</b>	LC <sub>50</sub> , : >3,077 mg/l, Colinus Virginianus (Bobwhite Quail)
<b><u>Persistence and degradability</u></b>	
<b>Persistence and degradability</b>	The degradability of the product is not known.
<b><u>Bioaccumulative potential</u></b>	
<b>Bioaccumulative Potential</b>	No data available on bioaccumulation.
<b><u>Mobility in soil</u></b>	
<b>Mobility</b>	No data available.
<b><u>Results of PBT and vPvB assessment</u></b>	
<b><u>Other adverse effects</u></b>	
<b>Other adverse effects</b>	None known.

### SECTION 13: Disposal considerations

#### **Waste treatment methods**

<b>Disposal methods</b>	Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.
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### SECTION 14: Transport information

<b>General</b>	Not a dangerous good according to ADG code 7
<b><u>UN number</u></b>	
<b><u>UN proper shipping name</u></b>	
	Not applicable.
<b><u>Transport hazard class(es)</u></b>	
<b><u>Packing group</u></b>	
<b><u>Environmental hazards</u></b>	
<b><u>Special precautions for user</u></b>	

### SECTION 15: Regulatory information

#### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **Inventories**

<b>Australia - AICS</b>	Not applicable
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## VectoBac 12AS Biological Insecticide

### SECTION 16: Any other relevant information

<b>Training advice</b>	Only trained personnel should use this material.
<b>Revision date</b>	16/11/2016
<b>Revision</b>	3
<b>Supersedes date</b>	16/11/2016
<b>SDS No.</b>	4708

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