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**DIPEL® DF BIOLOGICAL INSECTICIDE**


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**SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION**


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<b>Product Name:</b>	<b>DiPel DF Biological Insecticide</b>
<b>Product Use:</b>	Controls Lepidopteran caterpillars in Agricultural and Non-Agricultural Uses: Vegetables, Fruit, Vines, Oilseeds, Cereal Grains, Herbs, Tobacco, Ornamentals, Forestry, Amenity Trees and Turf.
<b>Company:</b>	Sumitomo Chemical Australia Pty Ltd A.B.N. 21 081 096 255
<b>Address:</b>	242 Beecroft Road, Epping NSW 2121
<b>Telephone Number:</b>	(02) 8752 9000 (Mon–Fri 8am–5pm EST)
<b>Emergency Telephone Number:</b>	1800 024 973 (24 hours) (EMERGENCIES ONLY)

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**SECTION 2: HAZARDS IDENTIFICATION**


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

**EMERGENCY OVERVIEW**

<b>Colour:</b>	Yellow to mustard brown
<b>Physical description:</b>	Fine granules
<b>Odour:</b>	Faint organic/malt odour
<b>Major health hazards:</b>	Product is non-toxic by ingestion, skin contact or inhalation.

**POTENTIAL HEALTH EFFECTS**

**Acute Toxicity:** No adverse health effects are expected if this product is used in accordance with the label. Poisoning is unlikely to occur.

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

<b>Eye:</b>	Non-Irritant
<b>Skin:</b>	Non-Irritant and non-sensitizer
<b>Ingestion:</b>	Not a likely route of exposure
<b>Inhalation:</b>	Not a likely route of exposure

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**


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Chemical Entity	CAS number	Proportion
<i>Bacillus thuringiensis</i> subsp <i>kurstaki</i>	68038-71-1	54%
Other ingredients determined not to be hazardous		46%

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## SECTION 4: FIRST AID MEASURES

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<b>Scheduled Poisons:</b>	Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons. Telephone: 131126 (Australia).
<b>Eye contact:</b>	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.
<b>Skin contact:</b>	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.
<b>Ingestion:</b>	Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
<b>Inhalation:</b>	Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
<b>Note to physician:</b>	Medical conditions aggravated by exposure – impaired respiratory function. No known antidote, provide symptomatic/supportive care as necessary.

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## SECTION 5: FIRE FIGHTING MEASURES

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<b>Fire and Explosion Hazards:</b>	Not flammable.
<b>Extinguishing Media:</b>	Use appropriate medium for the underlying cause of the fire.
<b>Hazardous Decomposition Products:</b>	None
<b>Hazardous reactions:</b>	None. Hazardous polymerisation will not occur.
<b>Materials to avoid:</b>	None
<b>Fire Fighting:</b>	Wear protective clothing and self-contained breathing apparatus.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**Emergency Telephone Number:** 1800 024 973 (24 hours) (EMERGENCIES ONLY)

### 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 and place in an appropriate container for disposal. Avoid breathing dust. Ventilate and wash the spill area. Pick up wash liquid with additional absorbent 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.

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## SECTION 7: HANDLING AND STORAGE

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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.

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## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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<b>EYE PROTECTION:</b>	Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.
<b>RESPIRATION/VENTILATION:</b>	Not usually required however this material may be a respiratory irritant and unless ventilation is adequate, the use of approved respiratory protection is recommended. Use only in well ventilated areas.
<b>SKIN PROTECTION:</b>	Avoid contact with skin or clothing. Skin contact should be minimised by wearing protective clothing including impervious gloves. Wash thoroughly with soap and water after handling.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>APPEARANCE:</b>	Yellow to mustard brown fine granules
<b>ODOUR:</b>	Faint organic/malt odour
<b>MELTING POINT:</b>	Not applicable
<b>BOILING POINT:</b>	Not applicable
<b>DENSITY:</b>	0.473 g/mL
<b>SOLUBILITY:</b>	Suspends readily in water
<b>VAPOUR PRESSURE:</b>	Not determined
<b>pH:</b>	4.1 (10% slurry @ 24°C)

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## SECTION 10: STABILITY AND REACTIVITY

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

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### Acute (Product Specific)

Eye irritation:	Transient, mild to moderate irritation was observed in test animals in a study with this product. Rinsing the eyes with water dramatically reduced irritation scores. Classified as a non-irritant.
Oral LD <sub>50</sub> (rat):	>5,050 mg/kg (rat). EPA Toxicity Category IV
Dermal LD <sub>50</sub> (rabbits):	>2,020 mg/kg (rabbit). EPA Toxicity Category III
Inhalation toxicity:	Due to the non-dusty characteristics of the product, the test facility was unable to generate a sufficiently high enough concentration of respirable particles. Animal test not warranted.
Irritation of the skin (rabbits):	Transient, slight or mild irritation noted in a dermal irritation study with this product. EPA Toxicity Category IV.
Sensitisation:	In a study with this product, no skin sensitization was observed.

### 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

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**SECTION 12: ECOLOGICAL INFORMATION**

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**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  
DiPel DF is toxic only to caterpillars of certain lepidopterous insects (moths and butterflies). It does not harm beneficial insects and mite predators, and leaves no harmful crop residues.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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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.

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**SECTION 14: TRANSPORT INFORMATION**

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**No special storage or transport requirements necessary.**

**ADG Code:** Not a Dangerous Good**HAZCHEM Code:** Not Applicable

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**SECTION 15: REGULATORY INFORMATION**

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

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**SECTION 16: OTHER INFORMATION**

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**Abbreviations:****NA** Not Applicable**NDA** No Data Available**Revision date:** September 2009**Revision number:** 2

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.