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**DIPEL® SC BIOLOGICAL INSECTICIDE****STATEMENT OF HAZARDOUS NATURE:**

"Hazardous according to the criteria of National Occupational Health & Safety Commission"  
Eye Irritant. Moderate Skin Irritant

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

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**Product Name:** DiPel SC Biological Insecticide  
**Product Use:** Controls Lepidopteran caterpillars in cotton and field crops  
**Company:** Sumitomo Chemical Australia Pty Ltd  
A.B.N. 21 081 096 255  
**Address:** 242 Beecroft Road, Epping NSW 2121  
**Telephone Number:** (02) 8752 9000 (Mon–Fri 8am–5pm EST)  
**Emergency Telephone Number:** 1800 024 973 (24 hours) (EMERGENCIES ONLY)

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**SECTION 2: HAZARDS IDENTIFICATION**

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**Approved Criteria Classification:** NOHSC exposure standards have not been assigned for the active ingredient or the excipients in the formulation  
**SUSDP Classification:** Not Scheduled  
**ADG Classification:** Not a Dangerous Good

**EMERGENCY OVERVIEW**

**Colour:** Tan to Brown  
**Physical description:** Liquid  
**Odour:** Characteristic organic/malt odour  
**Major health hazards:** Product is non-toxic by ingestion, skin contact or inhalation. Excessive inhalation of the carrier oil may cause lipoid pneumonia.

**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. Excessive inhalation of the carrier oil may cause lipoid pneumonia.

**Signs and Symptoms of Systemic Effects:** Product is non-toxic by ingestion or skin contact. Excessive exposure to spray mist may cause irritation to the eyes, nose and throat. Inhalation of the carrier oil used in this product could result in pneumonia.

**Eye:** Irritant  
**Skin:** Moderate skin irritant. The active ingredient is not considered a sensitizer.  
**Ingestion:** Not a likely route of exposure  
**Inhalation:** 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	25%
Other ingredients determined not to be hazardous		To 100%

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## SECTION 4: FIRST AID MEASURES

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- 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. Do not induce vomiting. 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:** Medical conditions aggravated by exposure – not determined. Pre-existing respiratory disease or dysfunction.  
No known antidote, provide symptomatic/supportive care as necessary.

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## SECTION 5: FIRE FIGHTING MEASURES

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- Fire and Explosion Hazards:** Non flammable and no explosive properties  
Flash Point (closed cup): 182°C  
Autoignition Temperature: >204°C
- Extinguishing Media:** Use appropriate medium for the underlying cause of the fire.
- Hazardous Decomposition Products:** None
- Hazardous reactions:** None. Hazardous polymerisation will not occur.
- Materials to avoid:** None
- Fire Fighting:** 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>	Not usually required. 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>	Tan to Brown Liquid
<b>ODOUR:</b>	Characteristic organic/malt odour
<b>MELTING POINT:</b>	Not applicable as is liquid
<b>BOILING POINT:</b>	>204°C
<b>BULK DENSITY:</b>	960 g/L
<b>SOLUBILITY:</b>	Suspends readily in water
<b>VAPOUR PRESSURE:</b>	Not determined
<b>VISCOSITY:</b>	300-1000 cps
<b>pH:</b>	4.0 – 6.5 (10% slurry)

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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</b>	None that are known.
<b>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 irritation one hour after exposure All effects cleared by 24 hours. EPA Toxicity Category IV
Oral LD <sub>50</sub> (rat):	>5,050 mg/kg (rat). EPA Toxicity Category IV
Dermal LD <sub>50</sub> (rabbits):	>5,050 mg/kg (rabbit). EPA Toxicity Category IV
Inhalation toxicity:	>2.95 mg/L (highest attainable concentration) (8.45 mg/L nominal concentration) 4-hour nose-only exposure
Irritation of the skin (rabbits):	Transient, slight or mild irritation noted in a dermal irritation study with this product. EPA Toxicity Category IV.
Corrosiveness:	Not determined – not expected to have any corrosive properties.
Sensitisation:	Not determined – although the probability is low, the potential to cause skin sensitization exists.

### Chronic/Carcinogenicity

No adverse effects known. None of the components are classified as carcinogens.

<b>Teratology (Birth Defects) Information</b>	No adverse effects known
<b>Reproduction Information</b>	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 SC 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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Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. Do not contaminate water when disposing of equipment wash waters. Triple rinse containers before disposal. 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.