

DIPEL® SC BIOLOGICAL INSECTICIDE

STATEMENT OF HAZARDOUS NATURE:

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

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

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: 501 Victoria Avenue Chatswood NSW 2067
Telephone Number: (02) 9904-6499 (Mon–Fri 8am–5pm EST)
Emergency Telephone Number: 1800 024 973 (24 hours) (EMERGENCIES ONLY)

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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%

SECTION 3: HAZARDS IDENTIFICATION

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 lipid 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 lipid 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

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. 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.

SECTION 5: FIRE FIGHTING MEASURES

Fire and Explosion Hazards:	Non flammable and no explosive properties Flash Point (closed cup): 182°C Autolgnition 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

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. Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.
RESPIRATION/VENTILATION:	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.
SKIN PROTECTION:	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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Tan to Brown Liquid
ODOUR:	Characteristic organic/malt odour
MELTING POINT:	Not applicable as is liquid
BOILING POINT:	>204°C
BULK DENSITY:	960 g/L
SOLUBILITY:	Suspends readily in water
VAPOUR PRESSURE:	Not determined
VISCOSITY:	300-1000 cps
pH:	4.0 – 6.5 (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:	Transient, mild irritation one hour after exposure All effects cleared by 24 hours. EPA Toxicity Category IV
Oral LD ₅₀ (rat):	>5,050 mg/kg (rat). EPA Toxicity Category IV
Dermal LD ₅₀ (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.

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
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.

SECTION 13: DISPOSAL CONSIDERATIONS

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.

SECTION 14: TRANSPORT INFORMATION

No special storage or transport requirements necessary.

ADG Code: Not a Dangerous Good

HAZCHEM 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:

NA Not Applicable

NDA No Data Available

Revision date: June 2006

Revision number:

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.