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Product Name DiPel® DF

1. Identification

GHS Product

DiPel® DF

Identifier

Product Code 03513

Product Type Biological insecticide

Company Name Nufarm NZ

Address 6 Manu Street, Otahuhu

Auckland 2024 New Zealand

Telephone/Fax

Number

Emergency phone

0800 651 911

number

Email nzinfo@nufarm.com

Recommended use of the chemical and

Tel: 0-9-270 4150

An organic insecticide for the control of caterpillars on fruit, vegetables and ornamental crops.

restrictions on use Other Information

tion This SDS describes, to the best of our knowledge, the properties of the

concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be

much less severe.

2. Hazard Identification

Signal Word (s) WARNING

Hazard Statement (s) H320 Causes eye irritation
General P103 Read label before use.

Precautionary Statement (s)

Precautionary P264 Wash face and hands thoroughly after handling.

statement –
Prevention
Precautionary

Prevention
Precautionary P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

statement - Response Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice.

Other Information 6.4A eye irritant, 9.1D aquatic toxicant,

TOXICITY

Warning-Causes eye irritation.

ECOTOXIC

Has biocidal action against Lepidoptera.

3. Composition/information on ingredients

Chemical Solid

Characterization

Ingredients

Name
Other ingredients not N/A 46%
disclosed by supplier
Bacillus thuringiensis 68038-71-1 32,000
subspecies kurstaki Internationa

4. First-aid measures

First Aid Measures For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a

doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical

1 Units/mg

attention.

(H-3a, 3b HD1)

Inhalation Remove patient to fresh air. Lay down and keep warm and rested. If breathing

is shallow or has stopped ensure airway is clear and apply resuscitation.

Seek medical assistance immediately.

Ingestion Never give anything by mouth to an unconscious person. If swallowed do NOT

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induce vomiting. For advice, contact the National Poisons Centre (0800 764

Seek medical assistance immediately.

Immediately flush body and clothes with large amounts of water. Remove Skin

contaminated clothing and footwear. Wash affected areas with soap and water.

If a large area is affected seek medical assistance.

Flush eyes with plenty of water for 15 minutes holding eyelids open if Eye contact

necessary.

Remove contact lenses, if present and easy to do.

Seek medical assistance even if there are no immediate symptoms.

First Aid Facilities Facilities storing or utilizing this material should be equipped with an

eyewash facility and safety shower.

Treat symptomatically. **Advice to Doctor**

Medical conditions aggravated by exposure - impaired respiratory function.

Do not allow washings to reach sewage or effluent systems.

5. Fire-fighting measures

Choose extinguishing media to suit the burning material. Suitable

Water fog, foam, carbon dioxide or dry chemical. extinguishing media Full protective clothing and self-contained breathing apparatus.

Special Protective

Equipment for fire fighters

Specific Methods Decomposition Temp. Not determined.

Location Certificate: Not applicable Other Information

Keep up wind.

Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Clear area of unprotected personnel. Spills & Disposal Wear protective clothing.

solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate

sealable container for disposal in an approved landfill.

Personal Protection For appropriate personal protective equipment (PPE), refer Section 8.

Environmental **Precautions**

Prevent from entering drains, waterways or sewers.

7. Handling and storage

Avoid skin and eye contact and inhalation of spray mist or dust. **Precautions for Safe**

CERTIFIED HANDLER: Not applicable. Handling

TRACKING: Not applicable.

RECORD KEEPING: Not applicable.

Conditions for safe storage, including

High temperatures will damage the bacterial spores contained in DiPel DF \cdot

Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs and out of direct sunlight. Storage must be in

accordance with NZS 8409 Management of Agrichemicals.

Other Information Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

No exposure limits (WES, TEL or EEL's) have been specifically assigned for Occupational this product. As with all dusts the WES for particulates not otherwise exposure limit values

classified = 10mg/m^3 .

Handle in well ventilated areas, generally natural ventilation is adequate. **Appropriate**

engineering controls

any incompatabilities

Personal Protective

When opening the container, preparing spray and using the prepared spray wear safety goggles, impervious gloves, cotton overalls buttoned to the neck **Equipment**

and wrist, and boots. Do not eat, drink or smoke while using.

Hygiene Measures Remove protective clothing and wash hands and face thoroughly before meals

Wash protective clothing daily after work. and after work.

9. Physical and chemical properties

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Form Solid

Yellow to mustard brown fine granules **Appearance**

Faint organic/malt odour Odour

Decomposition

Not determined.

Temperature

Not determined. **Melting Point Boiling Point** Not applicable. Disperses in water. Solubility in Water 4.1 (10% slurry @ 24°C) pН

Vapour Pressure Vapour Density

Not determined. Not determined.

(Air=1)

Partition Coefficient: Not determined.

n-octanol/water

0.473g/mL Density

Not applicable. Flash Point Not determined. Flammability Not determined. **Auto-Ignition**

Temperature

Not determined Flammable Limits -

Lower

Not determined. Flammable Limits -

Upper

Other Information (WG) Water Dispersible Granule

10. Stability and reactivity

Stable under normal conditions of handling and storage. **Chemical Stability**

Incompatible

Alkalinity inactivates product.

Materials

Hazardous None known.

Decomposition **Products**

Hazardous polymerisation will not occur. Hazardous

Polymerization

11. Toxicological Information

Acute Toxicity - Oral LD50 (>5050) mg/kg (rat) **Acute Toxicity -**

Dermal

LD50 (>2020) mg/kg (rabbit)

Due to the non-dusty characteristics of the product, the test facility was Acute Toxicity unable to generate a sufficiently high enough concentration of respirable Inhalation

particles.

Inhalation of dust may result in respiratory tract irritation.

Skin Sensitisation In a study with this product, no skin sensitization was observed.

Germ cell

Data not available.

mutagenicity

No data to support a positive result. Carcinogenicity

No adverse effects known. Reproductive

No adverse teratogological effects known. Toxicity

STOT-repeated

Data not available.

exposure

Information not available. **Aspiration Hazard**

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Serious eye Transient, mild to moderate irritation was observed in test animals in a study

damage/irritation with this product. Rinsing the eyes with water dramatically reduced

irritation scores.
Not classified.

Respiratory Irritation

itation

Skin

Transient, slight or mild irritation noted in a dermal irritation study with

corrosion/irritation this product.

12. Ecological information

Ecological Low toxicity to fish and wildlife.

Information

Persistence and No data available.

degradability

Mobility No data available.

Environmental Fate Bacillus thuringiensis subsp. kurstaki spores have a very short persistence in

the environment (DT50 10h), mainly due to their u.v.-light sensitivity.

Bioaccumulative No data available.

Potential

Short Summary of Assessment of Environmental 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.

Impact

13. Disposal considerations

Product Disposal Dispose of product only by using according to the label, or at an approved

landfill.

Container Disposal Triple rinse empty container and add rinsate to the spray tank. Recycle empty

container. Otherwise crush and bury in a suitable landfill.

14. Transport information

Transport It is good practice not to transport agricultural chemical products with

Information food, food related materials and animal feedstuffs.

Storage and Not classified as Dangerous Goods for transport in New Zealand.

Transport

Other Information Do not carry more than 3kg of DIPEL DF on a passenger service vehicle.

Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation.

Refer NZS5433 sea segregation for details.

15. Regulatory information

National and or Registered pursuant to the ACVM Act 1997, No. P3853

International See www.foodsafety.govt.nz for registration conditions

Regulatory Approved pursuant to the HSNO Act 1996, Approval Code HSR000698

Information See www.epa.govt.nz for approval controls.

Hazard Rating NFPA/HM

Systems

NFPA/HMIS: 1-1-1

Other Information BioGro Organic Certification: 'Permitted Input'. BioGro Number: 4027

16. Other Information

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE

24Hr Tollfree Emergency No: 0800 651 911

24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

Revisions SDS was reviewed to incorporate GHS updates.

Highlighted

Other Information Supersedes SDS issued November 2016

...End Of MSDS...

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