

SAFETY DATA SHEET



DuPont™ Benevia® insecticide

Version 2.1

Revision Date 03.11.2015

Document no. 130000050174

This SDS adheres to the standards and regulatory requirements of New Zealand and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : DuPont™ Benevia® insecticide

Other names : B12901515

Recommended use of the chemical and restriction on use

Recommended use : Insecticide

Manufacturer, importer, supplier

Company : DuPont (New Zealand) Limited
Street address : Level 1, 14 Ormiston Road, East Tamaki, Auckland 2016
New Zealand
Telephone : 0800 658080
Telefax : (09)-271-2961

Emergency telephone number : NZ Poisons Information Centre Ph: 0800 764766
24-hour Medical Emergency: 0800 111174 Transport Emergency: 0800 387668

2. HAZARDS IDENTIFICATION

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001
Classified as a Dangerous Good according to NZS 5433

HSNO Classification:

6.5B : Skin sensitisation
6.9B : Specific Target Organ Toxicity
9.1A : Aquatic toxicity (Acute or Chronic)
9.4B : Ecotoxic to terrestrial invertebrates

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

Label content

Pictogram :



Signal word : Warning

Hazardous warnings : May cause damage to organs through prolonged or repeated exposure. (Liver, Thyroid)
May cause an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.
Toxic to terrestrial invertebrates.

Precautionary statements : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.

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IF ON SKIN: Wash with plenty of soap and water.
Get medical advice/ attention if you feel unwell.
Specific treatment (see supplemental first aid instructions on this label).
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.
Collect spillage.
Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

| Chemical Name | CAS-No. | Concentration |
|-------------------|-------------|---------------|
| Cyantraniliprole | 736994-63-1 | 10.26 % |
| Other Ingredients | | 89.74 % |

4. FIRST AID MEASURES

Never give anything by mouth to an unconscious person.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
Contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor if you feel unwell.

- Inhalation** : Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.
- Skin contact** : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Eye contact** : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Ingestion** : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- Most important symptoms/effects, acute and delayed** : No information available.
- Protection of first-aiders** : No information available.
- Notes to physician** : No information available.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)
- Unsuitable extinguishing media** : High volume water jet, (contamination risk)

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- Specific hazards** : The product is not flammable.
- Special protective equipment for firefighters** : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- Specific extinguishing methods** : No information available.
- Further information** : Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
(on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.
- Hazchem Code** : .3Z

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures** : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.
Avoid contact with skin.
- Environmental precautions** : Prevent material from entering sewers, waterways, or low areas.
- Methods and materials for containment and cleaning up** : Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.
- Additional advice** : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Handling

- Technical measures/Precautions : Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.
- Precautions for safe handling : The product is not flammable.

Storage

- Suitable storage conditions : Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home. Keep out of the reach of children.
- Storage period: Storage temperature: > 0 °C

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

No information available.

Engineering measures : Ensure adequate ventilation, especially in confined areas.**Biological occupational exposure limits** : No information available.**Personal protective equipment**

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

Hand protection : When mixing or applying wear protective gloves.

Eye protection : None specified.

Skin protection : Wear overalls or long sleeve shirt, long pants, boots.

Hygiene measures : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Do not breathe vapours or spray mist. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.**Protective measures** : Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. End users of this product should follow label instructions for personal protection when using this product.**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance (Physical state, form, colour, etc.)**Physical state : liquid
Form : liquid, dispersion
Colour : off-white**Odour** : mild oily**Odour Threshold** : No information available.**pH** : 5.1 (10 g/l)**Melting point/freezing point**

Melting point/range : Not applicable

Initial boiling point and boiling range

Boiling point/boiling range : 99 °C

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| | | |
|---|---|-------------------------------|
| Flash point | : | No flash up to boiling point. |
| Evaporation rate | : | No information available. |
| Flammability (solid, gas) | : | The product is not flammable. |
| Upper/lower flammability or explosive limits | | |
| Upper explosion limit | : | No information available. |
| Lower explosion limit | : | No information available. |
| Vapour pressure | : | No information available. |
| Vapour density | : | No information available. |
| Density | | |
| Bulk density | : | 0.9 - 1.1 g/cm ³ |
| Solubility(ies) | | |
| Water solubility | : | dispersible |
| Partition coefficient: n-octanol/water | : | No information available. |
| Auto-ignition temperature | | |
| Auto-ignition temperature | : | 254 °C |
| Decomposition temperature | : | No information available. |
| Viscosity | | |
| Viscosity, kinematic | : | No information available. |
| Molecular weight | : | No information available. |

10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Reactivity | : | No information available. |
| Chemical stability | : | Stable at normal temperatures and storage conditions. |
| Possibility of hazardous reactions | : | No information available. |
| Conditions to avoid | : | Protect from frost. |
| Materials to avoid | : | No materials to be especially mentioned. |
| Hazardous decomposition products | : | No information available. |

11. TOXICOLOGICAL INFORMATION**Acute toxicity**
Oral

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- DuPont™ Benevia® insecticide : LD50/Rat: > 5,000 mg/kg
- Inhalation
DuPont™ Benevia® insecticide : LC50/4 h/Rat(dust/mist): > 3.3 mg/l
The substance or mixture has no acute inhalation toxicity
- Dermal
DuPont™ Benevia® insecticide : LD50/Rat: > 5,000 mg/kg
- Skin corrosion/irritation**
DuPont™ Benevia® insecticide : Species: Rabbit
Result: No skin irritation
- Serious eye damage/eye irritation**
DuPont™ Benevia® insecticide : Species: Rabbit
Result: No eye irritation
- Respiratory or skin sensitisation**
DuPont™ Benevia® insecticide : Species: multiple species
Result: May cause sensitisation by skin contact.
- Germ cell mutagenicity**
Cyantraniliprole : Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.
- Carcinogenicity**
Cyantraniliprole : Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.
- Reproductive toxicity**
Cyantraniliprole : Reproductive toxicity: No toxicity to reproduction
Animal testing showed no reproductive toxicity.
Teratogenicity: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
- Specific Target Organ Toxicity**
Specific target organ toxicity - single exposure
Cyantraniliprole : The substance or mixture is not classified as specific target organ toxicant, single exposure.
- Specific target organ toxicity - repeated exposure
DuPont™ Benevia® insecticide : May cause damage to organs through prolonged or repeated exposure.

Refer to repeated dose toxicity data for more information on target organs if applicable.
- Aspiration hazard**
DuPont™ Benevia® insecticide : No aspiration toxicity classification
- Other**
Cyantraniliprole : Repeated dose toxicity:
The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
Oral/Rat 28 - 90 d
Thyroid effects, Organ weight changes, No effect to neurotoxicity.

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Dermal/Rat 28 d
 No toxicologically significant effects were found.
 Oral/Mouse 90 d
 No toxicologically significant effects were found.
 Oral/Dog 90 d
 altered blood chemistry, Liver effects, Vascular arteritis
 Oral/multiple species 28 d
 Immune System, No toxicologically significant effects were found.
 Oral/Rat 14 d
 No toxicologically significant effects were found.
 Oral/Dog 365 d
 Liver effects, Gallbladder effects, altered blood chemistry, Vascular arteritis
 Inhalation/Rat 28 d
 No toxicologically significant effects were found.

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Acute and prolonged toxicity to fish

Cyantraniliprole : LC50/96 h/Oncorhynchus mykiss (rainbow trout): > 12.6 mg/l
 LC50/96 h/Lepomis macrochirus (Bluegill sunfish): > 13 mg/l

Toxicity to aquatic plants

Cyantraniliprole : ErC50/72 h/Pseudokirchneriella subcapitata (green algae): > 13 mg/l
 ErC50/7 d/Lemna gibba (duckweed): > 12.1 mg/l

Acute toxicity to aquatic invertebrates

DuPont™ Benevia® insecticide : EC50/48 h/Daphnia magna (Water flea): 0.215 mg/l

Chronic toxicity to aquatic Invertebrates

Cyantraniliprole : NOEC/21 d/Daphnia magna (Water flea): 0.00969 mg/l

Persistence and degradability

DuPont™ Benevia® insecticide : Not readily biodegradable. Estimation based on data obtained on active ingredient.

Bioaccumulation

DuPont™ Benevia® insecticide : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Mobility in soil

No information available.

Other adverse effects

DuPont™ Benevia® insecticide : See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.
 Dispose of in accordance with local regulations.

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Contaminated packaging : Do not re-use empty containers.
Triple rinse containers. Add rinsings to spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point.
Do not apply directly to water.

14. TRANSPORT INFORMATION

NZS 5433

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Cyantraniliprole)
Class : 9
Packing group : III

IMDG

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Cyantraniliprole)
Class : 9
Packing group : III
Marine pollutant : yes

IATA

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Cyantraniliprole)
Class : 9
Packing group : III

Matters needing attention for transportation : Marine Pollutants in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code and IATA special provision A197. If the product meets these special provisions, it may be shipped in New Zealand as a non-dangerous goods under provisions in NZS 5433 code which accepts IMDG and IATA classification.

15. REGULATORY INFORMATION

HSNO Number : HSR100856
HSNO Controls : T1, T2, T4, T5, T7
E1, E2, E5, E6, E7
I1, I3, I9, I11, I16, I17, I18, I19, I21, I23, I28, I29
P1, P3, P15, PG3, PS4
D4, D5, D6, D7, D8
EM1, EM6, EM7, EM8, EM11, EM12, EM13

16. OTHER INFORMATION

References

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| | | |
|---------------------------|---|------------|
| Date of first preparation | : | 08.10.2013 |
| Revision Date | : | 03.11.2015 |
| Version | : | 2.1 |

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Significant change from previous version is denoted with a double bar.

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