

SAFETY DATA SHEET



DuPont™ Benevia® insecticide

Version 2.1

Revision Date 18.12.2015

Document no. 130000050174

This SDS adheres to the standards and regulatory requirements of Australia 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 : Du Pont (Australia) Pty Ltd
Street address : 7 Eden Park Drive
Macquarie Park NSW 2113
Australia

Telephone : (02) 9923 6111
Telefax : (02) 9923 6011

Emergency telephone number : (02) 9923 6275 (Transport Emergency)
(24 hr Emergency Medical Information: 1800 674 415)

2. HAZARDS IDENTIFICATION

Product hazard classification

Skin sensitisation : Category 1
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

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 an allergic skin reaction.
Very toxic to aquatic life with long lasting effects.

Precautionary statements : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.
Collect spillage.

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Dispose of contents/ container to an approved waste disposal plant.

Other hazards

May irritate eyes, nose, throat or skin.

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. If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 13 11 26.

- 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** : Treat symptomatically.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)
- Unsuitable extinguishing media** : High volume water jet, (contamination risk)
- Specific hazards** : The product is not flammable.

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- 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 and eyes.
- 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 in original container. DO NOT store for prolonged periods in direct sunlight
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Storage period: Storage temperature: > 0 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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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 : None specified.

Hand protection : When opening the container, preparing spray and using the prepared spray:
Material: Chemical-resistant gloves
Wash hands thoroughly after handling., Gloves must be rinsed thoroughly after use.

Eye protection : None specified.

Skin protection : When opening the container, preparing spray and using the prepared spray.,
Chemical-resistant gloves**Hygiene measures** : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash thoroughly and put on clean clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. When opening the container, preparing spray and using the prepared spray:**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.**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

Flash point : No flash up to boiling point.

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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

DuPont™ Benevia® insecticide : LD50/Rat: > 5,000 mg/kg


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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 : 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.
Dermal/Rat 28 d
No toxicologically significant effects were found.

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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 : Refer to the product label for instructions.

Contaminated packaging : Do not re-use empty containers.

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14. TRANSPORT INFORMATION

ADG

UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Cyantraniliprole)
Class : 9
Packing group : III
Hazchem Code : .3Z

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 : Not dangerous goods under ADG code when being transported in IBCs or other receptacles < 500 kg (Special Provision AU01). 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.

15. REGULATORY INFORMATION

SUSMP: Schedule 5

APVMA Approval number: 66684

16. OTHER INFORMATION

References

SDS Number: 130000050174

Revision Date/Version

Date of first preparation : 03.07.2013
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Take notice of the directions of use on the label.

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.