

# SAFETY DATA SHEET



## DuPont™ Benevia® insecticide

Version 2.0

Revision Date 01.07.2013

Ref. 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 information

Trade name : DuPont™ Benevia® insecticide  
Use of the : Insecticide  
Substance/Mixture  
Company : Du Pont (Australia) Pty Ltd  
7 Eden Park Drive  
Macquarie Park NSW 2113  
Australia  
  
Telephone : (02) 9923 6111  
Telefax : (02) 9923 6011  
Emergency telephone : (02) 9923 6275 (Transport Emergency)  
number : (24 hr Emergency Medical Information: 1800 674 415)

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : DPX-HGW86 10 OD  
B12901515

#### Components

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

### 3. HAZARDS IDENTIFICATION

#### Hazard classification

Not classified as dangerous goods according to the ADG Code.  
Not classified as hazardous according to criteria of NOHSC.

#### Risks

May cause sensitisation by skin contact.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety data

Keep out of the reach of children.  
Keep away from food, drink and animal feedingstuffs.  
When using do not eat, drink or smoke.  
Avoid contact with skin.  
Wear suitable gloves.  
This material and its container must be disposed of in a safe way.  
Use appropriate container to avoid environmental contamination.  
Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

### 4. FIRST AID MEASURES

General advice : Never give anything by mouth to an unconscious person.


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- 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. Not a probable route of exposure. However, in case of accidental ingestion, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is conscious: Rinse mouth with water.

**5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)
- Extinguishing media which shall not be used for safety reasons : High volume water jet, (contamination risk)
- Specific hazards during firefighting : The product is not flammable.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- 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.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.


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- Environmental precautions : Prevent material from entering sewers, waterways, or low areas.
- Methods for 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**

- Advice on safe handling : Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.
- Advice on protection against fire and explosion : The product is not flammable.

**Storage**

- Requirements for storage areas and containers : 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 temperature : > 0 °C

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Occupational Exposure Limits**

Chemical Name	Occupational Exposure Limits		Regulation
Fumed silica, crystalline-free	TWA	2 mg/m <sup>3</sup> (Respirable fraction.)	Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) (08 2005)

**Engineering measures**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

- Respiratory protection : None specified.
- Hand protection : When opening the container, preparing spray and using the prepared spray:  
Material: Chemical-resistant gloves

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	Wash hands thoroughly after handling.
Eye protection	: None specified.
Skin and body protection	: None specified.
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.
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**

Form	: liquid , dispersion
Colour	: off-white
Odour	: mild , oily
pH	: 5.1 at 10 g/l
Melting point/range	: not applicable
Boiling point/boiling range	: 99 °C
Flash point	: No flash up to boiling point.
Flammability (solid, gas)	: The product is not flammable.
Auto-ignition temperature	: 254 °C
Oxidizing properties	: The product is not oxidizing.
Explosive properties	: Not explosive
Density	: 0.965 - 0.985 GJ
Water solubility	: dispersible

**10. STABILITY AND REACTIVITY**

Conditions to avoid	: Protect from frost.
Materials to avoid	: No materials to be especially mentioned.
Hazardous decomposition products	: No information available.

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Hazardous reactions : Stable at normal temperatures and storage conditions.

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50/rat : > 5,000 mg/kg

Acute inhalation toxicity : LC50/4 h/rat : 3.3 mg/l

Acute dermal toxicity : LD50/rat : > 5,000 mg/kg

Skin irritation : rabbit  
Result: No skin irritation

Eye irritation : rabbit  
Result: No eye irritation

Sensitisation : multiple species Result: Causes sensitisation.

**Repeated dose toxicity**

- Cyantraniliprole : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral, rat  
, Exposure time: 28 - 90 dThyroid effects, Organ weight changes, No effect to neurotoxicity.

Dermal, rat  
, Exposure time: 28 dNo toxicologically significant effects were found.

Oral, mouse  
, Exposure time: 90 dNo toxicologically significant effects were found.

Oral, dog  
, Exposure time: 90 dAltered blood chemistry, Liver effects

Oral, multiple species  
Immune System, No toxicologically significant effects were found.

Oral, dog  
, Exposure time: 365 d, NOEL: 5.67 mg/kg Liver effects, Gallbladder effects

**Mutagenicity assessment**

- Cyantraniliprole : Evidence suggests this substance does not cause genetic damage in animals. Evidence suggests this substance does not cause genetic damage in cultured mammalian cells. Evidence suggests this substance does not cause genetic damage in cultured bacterial cells.

**Carcinogenicity assessment**

- Cyantraniliprole : Animal testing did not show any carcinogenic effects.


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**Toxicity to reproduction assessment**

- Cyantraniliprole : Animal testing showed no reproductive toxicity.

**Assessment teratogenicity**

- Cyantraniliprole : Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

**12. ECOLOGICAL INFORMATION**
**Ecotoxicity effects**
**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 algae**

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

**Aquatic toxicity**

- : EC50/48 h/Daphnia magna (Water flea): 0.215 mg/l

**Further information on ecology**

- Additional ecological information : See product label for additional application instructions relating to environmental precautions.

**13. DISPOSAL CONSIDERATIONS**

- Contaminated packaging : Do not re-use empty containers.

**14. TRANSPORT INFORMATION**

Hazchem Code : .3Z

**IMDG**

- UN number : 3082
- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Cyantraniliprole)
- Class : 9
- Packing group : III
- Labelling No. : 9
- Marine pollutant : yes (Cyantraniliprole)


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**IATA\_C**

UN number : 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
 (Cyantranilprole)  
 Class : 9  
 Packing group : III  
 Labelling No. : 9MI

Further information : Not classified as dangerous goods according to the ADG Code.

**15. REGULATORY INFORMATION**
**Labelling**

Symbol(s) : Xi Irritant  
 N Dangerous for the environment

R-phrase(s) : R43 May cause sensitisation by skin contact.  
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) : S 2 Keep out of the reach of children.  
 S13 Keep away from food, drink and animal feedingstuffs.  
 S20/21 When using do not eat, drink or smoke.  
 S24 Avoid contact with skin.  
 S37 Wear suitable gloves.  
 S35 This material and its container must be disposed of in a safe way.  
 S57 Use appropriate container to avoid environmental contamination.  
 SP 1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

Further information : Not classified as hazardous according to criteria of NOHSC.

**National regulatory information**

SUSMP : Schedule 5

**16. OTHER INFORMATION**
**Sources of key data used to compile the Safety Data Sheet:**

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
5. Australian Code for the Transport of Dangerous Goods by Road & Rail No. 7 [National Transport Commission]
6. Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]

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**Department:**

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Macquarie Park NSW 2113  
Australia

**Further information:**

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

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