

SAFETY DATA SHEET



DuPont™ Exirel™ insecticide

Version 2.0

Revision Date 25.06.2013

Ref. 130000050443

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™ Exirel™ 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 : B12901327

Components

Chemical Name	CAS-No.	Concentration
Cyantraniliprole	736994-63-1	10.2 %
Other Ingredients		89.8 %

3. HAZARDS IDENTIFICATION

Hazardous classification

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

Risks

Irritating to skin.
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.

4. FIRST AID MEASURES

General advice : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.


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		If poisoning occurs, contact a doctor or Poisons Information Centre. In Australia 13 11 26.
Inhalation	:	No specific intervention is indicated as the compound is not likely to be hazardous. If inhaled, remove to fresh air. Consult a physician after significant exposure.
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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
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	:	(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.
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	:	Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE
Handling


DuPont™ Exirel™ insecticide

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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.

Advice on common storage : No special restrictions on storage with other products.

Storage temperature : > 0 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Occupational Exposure Limits

Chemical Name	Occupational Exposure Limits		Regulation
Propane-1,2-diol	TWA	150 ppm, 474 mg/m ³ (Total vapour and particulates.)	Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) (08 2005)
	TWA	10 mg/m ³ (Particulate.)	Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) (08 2005)
Butanone	STEL	300 ppm	US. ACGIH Threshold Limit Values (2011)
	TWA	200 ppm	US. ACGIH Threshold Limit Values (2011)
	TWA	150 ppm, 445 mg/m ³	Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) (08 2005)
	STEL	300 ppm, 890 mg/m ³	Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) (08 2005)


DuPont™ Exirel™ insecticide

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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

Wash hands thoroughly after handling.

Skin and body protection : When opening the container, preparing spray and using the prepared spray:

Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing).

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid
Colour	: off-white
Odour	: mild , phenol-like
pH	: 5.6 at 10 g/l
Melting point/range	: Not available for this mixture.
Boiling point/boiling range	: 97 °C
Flash point	: No flash up to boiling point.
Flammability (solid, gas)	: The product is not flammable.
Auto-ignition temperature	: 358 °C
Oxidizing properties	: The product is not oxidizing.
Explosive properties	: Not explosive
Relative density	: 0.982
Water solubility	: emulsifiable
Viscosity, dynamic	: 454 mPa.s , 50 rpm


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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.
- 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 : > 2.4 mg/l
- Acute dermal toxicity : LD50/rat : > 5,000 mg/kg
- Skin irritation : rabbit
Result: Irritating to skin.
- Eye irritation : rabbit
Classification: Not classified as irritant Result: Moderate eye irritation
- Sensitisation : guinea pig 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 dalttered 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


DuPont™ Exirel™ insecticide

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- 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.

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 : LC50/96 h/Cyprinus carpio (Carp): 130 mg/l

Toxicity to algae : 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): 0.0204 mg/l

Further information on ecology

Additional ecological information : Environmental Hazards: Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Toxic to bees. Do not apply this product while bees are actively visiting the treatment area. 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


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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)

IATA_C

UN number : 3082
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Cyantraniliprole)
 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-phrases(s) : R38 Irritating to skin.
 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-phrases(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.

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)]

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Version 2.0

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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)]

Department:

Du Pont (Australia) Pty Ltd
7 Eden Park Drive
Macquarie Park NSW 2113
Australia

Further information:

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.