

**DuPont™ Exirel™ Insect Control**

Version 2.1

Revision Date 04/04/2014

Ref. 130000050443

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

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont™ Exirel™ Insect Control
Tradename/Synonym : Cyantraniliprole 100 g/l SE
Cyazypyr™ 100 SE
DPX-HGW86 10 SE
Cyazypyr™ 10 SE
Cyantraniliprole: 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-2-methyl-6-[(methylamino)carbonyl]phenyl]-1H-pyrazole-5-carboxamide

MSDS Number : 130000050443

Product Use : Insecticide

Manufacturer : E.I. du Pont Canada Company
P.O. Box 2200, Streetsville
Mississauga, ON
L5M 2H3
Canada

Product Information : 1-800-387-2122
Medical Emergency : 1-800-441-3637 (24 hours)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

Causes moderate eye irritation. Avoid contact with skin, eyes and clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

This product is toxic to: Aquatic invertebrates This product is highly toxic to: Bees

Potential Health Effects

This section includes potential acute adverse effects which could occur if this material is not used according to the label.

Skin : May cause: Irritation with discomfort or rash.

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Eyes : May cause: Irritation with discomfort, pain, redness, or visual impairment.

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

SECTION 4. FIRST AID MEASURES

- 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.
- Inhalation : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- Ingestion : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- General advice : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
For medical emergencies involving this product, call toll free 1-800-441-3637.
See Label for Additional Precautions and Directions for Use.



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SECTION 5. FIREFIGHTING MEASURES

Flammable Properties

Flash point : No flash up to boiling point.

Auto-ignition temperature : 358 °C (676 °F)

Fire and Explosion Hazard : The product is not flammable.

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Unsuitable extinguishing media : High volume water jet, (contamination risk)

Firefighting Instructions : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
(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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.

Spill Cleanup : 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.

Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas. Dispose of in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE



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- Handling (Personnel) : 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.
- Handling (Physical Aspects) : The product is not flammable.
- Storage : 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 (> 32 °F)

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personal protective equipment
 - Skin and body protection : Applicators and other handlers must wear:
 - Long sleeved shirt and long pants
 - Shoes plus socks
 - Chemical-resistant gloves, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils
 Applicators and other handlers of the diluted material must wear: shirt, pants, socks and shoes.
 - Personal protective equipment required for early entry:
 - Coveralls
 - Shoes plus socks
 - Chemical-resistant gloves, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils
- 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.
- Exposure Guidelines
 - Exposure Limit Values

None established.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid
Color	: off-white
Odor	: mild, phenol-like
pH	: 5.6 at 10 g/l
Melting point/range	: Not available for this mixture.
Boiling point/boiling range	: 97 °C (207 °F)
Bulk density	: 0.9 - 1.1 g/cm ³
Water solubility	: emulsifiable

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable at normal temperatures and storage conditions.
Conditions to avoid	: Protect from frost.

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont™ Exirel™ Insect Control	
Inhalation 4 h LC50	: > 2.4 mg/l , rat
Dermal LD50	: > 5,000 mg/kg , rat
Oral LD50	: > 5,000 mg/kg , rat
Skin irritation	: Irritating to skin., rabbit
Eye irritation	: Moderate eye irritation, rabbit
Sensitisation	: May cause sensitisation by skin contact., guinea pig
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



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Thyroid effects, Organ weight changes, No effect to neurotoxicity.

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

Oral

multiple species

Immune System, No toxicologically significant effects were found.

Oral

dog

365 d

Liver effects, Gallbladder effects

Carcinogenicity : Not classifiable as a human carcinogen.
Animal testing did not show any carcinogenic effects.

Mutagenicity : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
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.

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.

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SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

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48 h EC50 : Daphnia magna (Water flea) 0.232 mg/l

Cyantraniliprole

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 12.6 mg/l

96 h LC50 : Lepomis macrochirus (Bluegill sunfish) > 13 mg/l

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) > 13 mg/l

7 d ErC50 : Lemna gibba (duckweed) > 12.1 mg/l

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 if bees are visiting the treatment area. See product label for additional application instructions relating to environmental precautions.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Disposal : Container Refilling and Disposal:
Refer to the product label for instructions.
Do not transport if this container is damaged or leaking.
In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.

SECTION 14. TRANSPORT INFORMATION

IATA_C UN number : 3082


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	Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Cyantraniliprole)
	Class	:	9
	Packing group	:	III
	Labelling No.	:	9MI
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)

Not regulated as a hazardous material by DOT.

Not regulated as a hazardous material by TDG.

SECTION 15. REGULATORY INFORMATION

EPA Reg. No.	:	352-859	In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.
PCP Registration #	:	30895	
Remarks	:	Regulated under the Pest Control Products Act - WHMIS exempt.	

SECTION 16. OTHER INFORMATION

MSDS preparation date : 04/04/2014

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Contact person : E.I. DuPont Canada Company, Mississauga, Ontario, L5M 2H3

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