

**DuPont™ Lumiderm™ Insecticide Seed Treatment**

Version 2.1

Revision Date 10/19/2016

Ref. 130000052722

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™ Lumiderm™ Insecticide Seed Treatment
Tradename/Synonym : DPX-HGW86 625 FS
Cyazypyr™ 625 FS
Cyantraniliprole 625 FS
Cyazypyr™ FS
DPX-HGW86 FS
Cyantraniliprole: 3-bromo-1-(3-chloro-2-pyridinyl)-N-[4-cyano-2-methyl-6-[(methylamino)carbonyl]phenyl]-1H-pyrazole-5-carboxamide

SDS Number : 130000052722

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

Potential Health Effects

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

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Component	CAS-No.	Concentration
Cyantraniliprole	736994-63-1	50 %
Other Ingredients		50 %

SECTION 4. FIRST AID MEASURES

- Skin contact : The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable. Consult a physician if necessary.
- Eye contact : The material is not likely to be hazardous by eye contact, but flushing the eye if contact occurs is advisable. Consult a physician if necessary.
- 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.

SECTION 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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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.

SECTION 7. HANDLING AND STORAGE

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) : Keep away from heat and sources of ignition.

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



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Skin and body protection : Applicators and other handlers must wear:
 Long sleeved shirt and long pants
 Shoes plus socks
 Chemical resistant gloves made of any waterproof material
 Personal protective equipment required for early entry:
 Long sleeved shirt and long pants
 Shoes plus socks
 Chemical resistant gloves made of any waterproof material

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

Cyantraniliprole			
AEL *	(DuPont)	3 mg/m3	8 hr. TWA
AEL *	(DuPont)	2 mg/m3	12 hr. TWA

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid
 Color : off-white
 Odor : characteristic
 pH : 5 - 7
 Bulk density : 1.0 - 1.5 g/cm3
 Water solubility : dispersible

SECTION 10. STABILITY AND REACTIVITY



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- Stability : Stable at normal temperatures and storage conditions.
- Conditions to avoid : Protect from frost.
- Incompatibility : None reasonably foreseeable.

SECTION 11. TOXICOLOGICAL INFORMATION

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- Inhalation 4 h LC50 : > 2.2 mg/l , Rat
- Dermal LD50 : > 5,000 mg/kg , Rat
- Oral LD50 : > 5,000 mg/kg , Rat
- Skin irritation : No skin irritation, Rabbit
- Eye irritation : No eye irritation, Rabbit
- Sensitisation : Animal test did not cause sensitization by skin contact., multiple species

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.
 - Oral
Mouse
90 d
No toxicologically significant effects were found.
 - Oral
Dog



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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.

- 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.
- 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.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity



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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
- 48 h EC50 : Daphnia magna (Water flea) 0.0204 mg/l
- 21 d NOEC : Daphnia magna (Water flea) 0.00969 mg/l

Additional ecological information : Environmental Hazards: Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. 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
- Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (Cyantraniliprole)
- Class : 9
- Packing group : III
- Labelling No. : 9MI
- IMDG 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. : 9

Not regulated as a hazardous material by DOT.

Not regulated as a hazardous material by TDG.

SECTION 15. REGULATORY INFORMATION

EPA Reg. No. : 352-858
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 # : 30894
Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.

SECTION 16. OTHER INFORMATION

MSDS preparation date : 10/19/2016

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

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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information



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relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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