

MONSANTO COMPANY
Safety Data Sheet
For Research and Development Only

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 MON 101106
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

Product Use Insecticide

Company

MONSANTO COMPANY, 800 N. Lindbergh Blvd., St. Louis, MO, 63167
Telephone: 800-332-3111, Fax: 314-694-5557
E-mail: safety.datasheet@monsanto.com

Emergency numbers

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT Call CHEMTREC - Day or Night: 1-800-424-9300 toll free in the continental U.S., Puerto Rico, Canada, or Virgin Islands. For calls originating elsewhere: 703-527-3887 (collect calls accepted). FOR MEDICAL EMERGENCY - Day or Night: +1 (314) 694-4000 (collect calls accepted).

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 collect +1(314) 694-4000 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
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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/m ³	8 hr TWA
AEL *	(DuPont)	2 mg/m ³	12 hr TWA

* AEL : Monsanto 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/cm ³
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
MON 101106

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 1-800-424-9300 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

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 #
Remarks

Regulated under the Pest Control Products Act - WHMIS exempt

SECTION 16. OTHER INFORMATION

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, MONSANTO Company or any of its subsidiaries makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for the purposes prior to use. In no event will MONSANTO Company or any of its subsidiaries be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR TO THE PRODUCT TO WHICH INFORMATION REFERS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

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Significant change from previous version is denoted with a double bar
