

DuPont[™] Vertisan[™] Fungicide

Version 2.2

Revision Date 12/12/2014 Ref. 130000036424

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[™] Vertisan[™] Fungicide Tradename/Synonym : DPX-LEM17 200 g/L EC

DPX-LEM17 20 EC Fungicide

PENTHIOPYRAD (RS)-N-[2-(1,3-dimethylbutyl)thiophen-3-yl]-1-methyl-3-

trifluoromethyl-1H-pyrazole-4-carboxamide

MSDS Number : 130000036424

Product Use : Fungicide

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

Warning

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear goggles, face shield or safety glasses. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. May be harmful if swallowed. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

This product is toxic to fish.

Potential Health Effects

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

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



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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
Penthiopyrad	183675-82-3	20.6 %
Other Ingredients		79.4 %

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.

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 : Call a poison control center or doctor for treatment advice. Have person sip a

glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth

to an unconscious person.

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 : 88 °C (190 °F)

Method: Pensky-Martens closed cup - PMCC

Ignition temperature : 250 °C (482 °F)

Fire and Explosion Hazard : Hazardous combustion products: Carbon oxides Nitrogen oxides (NOx)

sulphur oxides Fluorinated compounds

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

Unsuitable extinguishing

media

: High volume water jet, (contamination risk)

Firefighting Instructions : Wear full protective clothing and self-contained breathing apparatus.

Wear full protective equipment.

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.

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) : Control access to area. Keep people away from and upwind of spill/leak.

Ventilate spill area. Take precautionary measures against static discharges.

Avoid contact with skin, eyes and clothing. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.

Spill Cleanup : Clean-up methods - small spillage Soak up with inert absorbent material.

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Sweep up and shovel into suitable containers for disposal.

Clean-up methods - large spillage Prevent further leakage or spillage. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.

Accidental Release Measures : Prevent material from entering sewers, waterways, or low areas.

Never return spills in original containers for re-use. Dispose of in accordance

with local regulations.

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. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon

as possible, wash thoroughly and change into clean clothing.

Handling (Physical Aspects) : Keep away from heat and sources of ignition.

Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

Store product in original container only in a location inaccessible to children and pets. Keep in properly labelled containers. Keep in a dry, cool and well-ventilated place. Avoid extreme heat or cold. Keep container closed when not in use. Keep locked up or in an area accessible only to qualified or authorised

persons. Keep out of the reach of children. Observe label precautions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : When handlers use closed systems, enclosed cabs, or aircraft in a manner

that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Personal protective equipment

Skin and body protection : Mixers, loaders, applicators and other handlers must wear:



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Long sleeved shirt and long pants

Shoes plus socks Protective eyewear

Goggles, face shield, or safety glasses.

Personal protective equipment required for early entry:

Coveralls

Shoes plus socks

Chemical resistant gloves made of any waterproof material

Protective eyewear

Goggles, face shield, or safety glasses.

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.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area

during application. Use this product in accordance with its label.

Exposure Guidelines
Exposure Limit Values

Contains no substances with occupational exposure limit values.

None established.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid
Color : light yellow
Odor : like fruit
pH : 5.8 at 10 g/l

Oxidising Substance : The product is not oxidizing.

Specific gravity : 0.9681 Water solubility : emulsifiable

SECTION 10. STABILITY AND REACTIVITY

Stability : Stable at normal temperatures and storage conditions.

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Conditions to avoid : Protect from frost. Heat. Direct sunlight.

Hazardous decomposition

products

: Carbon oxides, Nitrogen oxides (NOx), sulphur oxides, Fluorinated

compounds

SECTION 11. TOXICOLOGICAL INFORMATION

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Inhalation 4 h LC50 : > 4.89 mg/l, Rat

Dermal LD50 > 5,000 mg/kg , Rat

: > 5,000 mg/kg, RatOral LD50

Skin irritation No skin irritation, Rabbit

Eye irritation Irritating to eyes., Rabbit

Sensitisation Causes sensitisation., Mouse

Penthiopyrad

Repeated dose toxicity

The following effects occurred at levels of exposure that significantly

exceed those expected under labeled usage conditions.

Oral

multiple species

Reduced body weight gain, Liver effects, Thyroid effects, Spleen effects, Gallbladder effects, Liver enlargement, Immune system effects, altered blood chemistry, altered hematology, Organ weight

changes, Decreased spleen weight, Increased liver weight

Carcinogenicity Not classifiable as a human carcinogen.

The following effects occurred at levels of exposure that significantly

exceed those expected under labeled usage conditions.

A slight increased incidence in tumors was observed in animal studies.

Mutagenicity Animal testing did not show any mutagenic effects.

Did not cause genetic damage in cultured bacterial cells.

Genetic damage in cultured mammalian cells was observed in some

laboratory tests but not in others.



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Reproductive toxicity : No toxicity to reproduction

Animal testing did not show any effects on fertility.

Teratogenicity : No toxicity to reproduction

The following effects occurred at levels of exposure that significantly

exceed those expected under labeled usage conditions.

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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96 h LC50 : Pimephales promelas (fathead minnow) 0.32 mg/l

48 h EC50 : Daphnia magna (Water flea) 1.2 mg/l

Penthiopyrad

72 h EbC50 : Pseudokirchneriella subcapitata (green algae) > 1.5 mg/l

Additional ecological information : Environmental Hazards: This product is toxic to fish. For Terrestrial

Uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. 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: : Refer to the product label for instructions.

Do not transport if this container is damaged or leaking.



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SECTION 14. TRANSPORT INFORMATION

IATA_C UN number : 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Penthiopyrad)

Class : 9
Packing group : III
Labelling No. : 9MI
UN number : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

LIQUID, N.O.S. (Penthiopyrad)

Class : 9
Packing group : III
Labelling No. : 9

Marine pollutant : yes (Penthiopyrad)

Not regulated by DOT/49 CFR unless shipped in bulk package or by water. Not regulated by TDG when transported soley on land by road or railway vehicle.

SECTION 15. REGULATORY INFORMATION

PCP Registration # : 30332

Remarks : Regulated under the Pest Control Products Act - WHMIS exempt.

SECTION 16. OTHER INFORMATION

MSDS preparation date : 12/12/2014

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

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