

Tanos® 50 DF Fungicide

Version 2.2

Issue Date

06/26/2018

Ref. 130000000560

Revision Date

05/01/2018

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

Tanos® 50 DF Fungicide

Tradename/Synonym

B10480592

DPX-KP481 50DF DPX-KP481 WG Tanos 50DF Tanos 50WG

Famoxadone: 2,4-Oxazolidinedione, 5-methyl-5-(4-phenoxyphenyl)-3-

(phenylamino)-

Cymoxanil: Acetamide, 2-cyano-N-[(ethylamino)carbonyl]-2-(methoxyimino)-

SDS Number

130000000560

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

Potential Health Effects

Skin

Famoxadone

May cause: Itching, Redness, Swelling.

Cymoxanil

May cause: Irritation with discomfort or pain, redness or rash, itching or

swelling.

Eves

Famoxadone

May cause: Eye irritation, tearing, Pain, Blurred vision.

Cymoxanil

May cause: Eye irritation, tearing, Pain, Blurred vision.

Inhalation



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Cymoxanil

Exposure may result in reddening, tears and itching of the eyes and

soreness in the nose and throat, together with coughing.

Ingestion

Famoxadone

May cause: Abnormal liver function, Abnormal formation of blood cells,

clouding of the eye.

Cymoxanil

: May cause; altered blood chemistry, Central nervous system depression,

dizziness, confusion, incoordination, drowsiness, or unconsciousness, Liver

effects.

Target Organ

Famoxadone

Eyes

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
Famoxadone	131807-57-3	25 %
Cymoxanil	57966-95-7	25 %
Other Ingredients		50 %

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.



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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

Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.

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.

SECTION 5. FIREFIGHTING MEASURES

Fiammable Properties

Flash point

: Not applicable

Suitable extinguishing media

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

Unsuitable extinguishing

media

: High volume water jet, (contamination risk)

Firefighting Instructions

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

Sweep up and shovel into suitable containers for disposal.

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

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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 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. 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 in original container. Do not contaminate water, other pesticides. fertilizer, food or feed in storage. Keep containers tightly closed in a dry, cool

and well-ventilated place. Keep out of the reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

 Use only with adequate ventilation. 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

Hand protection

Material: Chemical-resistant gloves

Skin and body protection

Applicators and other handlers must wear:

Long sleeved shirt and long pants

Chemical-resistant gloves, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils

Shoes plus socks

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has

been treated, such as plants, soil, or water, is:

Chemical-resistant gloves, Category A (such as butyl rubber, natural rubber,

neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils

Shoes plus socks



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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

Famoxadone

AEL *

(DuPont)

2 mg/m3

8 hr. TWA

AEL *

(DuPont)

1 mg/m3

12 hr. TWA

Cymoxanil

AEL *

(DuPont)

2 mg/m3

15 minute TWA

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form

: solid

Color

: brown

Odor

: sweet

pH

: ca. 6 at 10 g/l 20 °C (68 °F)

Bulk density

: 600 kg/m3

Water solubility

: dispersible

SECTION 10. STABILITY AND REACTIVITY

Stability

: Stable at normal temperatures and storage conditions.

Conditions to avoid

: None reasonably foreseeable.

Hazardous decomposition

products

: Carbon oxides, Nitrogen oxides (NOx)

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^{*} 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.



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Hazardous reactions

Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Tanos® 50 DF Fungicide

Inhalation 4 h LC50

> 5.1 mg/l , Rat

Dermal LD50

> 5,000 mg/kg , Rat

Oral LD50

: 1,732 mg/kg male Rat

Oral LD50

566 mg/kg, female, Rat

Skin irritation

No skin irritation, Rabbit

Minimal effects that do not meet the threshold for classification.

Eye irritation

No eye irritation, Rabbit

Minimal effects that do not meet the threshold for classification.

Sensitisation

May cause sensitisation by skin contact., Guinea pig

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Famoxadone

Repeated dose toxicity

The following effects occurred at levels of exposure that significantly

exceed those expected under labeled usage conditions.

Oral - feed

Dog

Target Organs: Eyes

eye effects

Oral - feed

Rat

Reduced body weight gain, Organ weight changes, Increased liver enzyme levels in serum, Liver effects, Red blood cell destruction causing abnormal decrease in number of red blood cells (anaemia)

Dermal

Rat

Increased liver weight, Increased liver enzyme levels in serum



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Did not show carcinogenic effects in animal experiments.

Not classifiable as a human carcinogen.

Reproductive toxicity

Carcinogenicity

No toxicity to reproduction

Animal testing showed effects on reproduction at levels equal to or

above those causing parental toxicity.

Teratogenicity

Animal testing showed no developmental toxicity.

Cymoxanil

Repeated dose toxicity

The following effects occurred at levels of exposure that significantly

exceed those expected under labeled usage conditions.

Oral

multiple species

Target Organs: Blood, thymus

altered blood chemistry. No effect to neurotoxicity.

Oral - feed Dog 90 d

Target Organs: thymus

Thymus effects

Carcinogenicity

Not classifiable as a human carcinogen.

Did not show carcinogenic effects in animal experiments.

Reproductive toxicity

No toxicity to reproduction

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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96 h LC50

Oncorhynchus mykiss (rainbow trout) 0.0287 mg/l

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72 h EbC50

: Pseudokirchneriella subcapitata (green algae) 0.023 mg/l

72 h ErC50

Pseudokirchneriella subcapitata (green algae) 0.048 mg/l

48 h EC50

Daphnia magna (Water flea) 0.012 mg/l

48 h EC50

Daphnia magna (Water flea) 0.0118 mg/l

90 d

NOEC Oncorhynchus mykiss (rainbow trout) 0.0014 mg/l

21 d

NOEC Daphnia magna (Water flea) 0.0037 mg/l

Cymoxanil

72 h ErC50

Pseudokirchneriella subcapitata (green algae) 2.39 mg/l OECD Test

Guideline 201

48 h EC50

Daphnia magna (Water flea) 27 mg/l

21 d

NOEC Oncorhynchus mykiss (rainbow trout) 0.22 mg/l

21 d

NOEC Daphnia magna (Water flea) 0.067 mg/l

Information source: Internal study report

Additional ecological information

Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. 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:

: Container Refilling and Disposal:

Refer to the product label for instructions.

Do not transport if this container is damaged or leaking.

SECTION 14. TRANSPORT INFORMATION



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IATA_C

UN number

: 3077

Proper shipping name

Environmentally hazardous substance, solid, n.o.s.

(Famoxadone, Cymoxanil)

Class

Packing group Labelling No. : III : 9MI

: 9

IMDG

UN number

: 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE.

Proper shipping name

SOLID, N.O.S. (Famoxadone, Cymoxanil)

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

Marine pollutant

: yes (Famoxadone, Cymoxanil)

Not regulated by DOT/49 CFR unless shipped in bulk package or by water.

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375.

SECTION 15. REGULATORY INFORMATION

EPA Reg. No.

: 352-604

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 #

: 27435

Remarks

Regulated under the Pest Control Products Act - WHMIS exempt.

SECTION 16. OTHER INFORMATION

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MSDS preparation date

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Registered trademark of E.I. du Pont de Nemours and Company

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Contact person

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

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