

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

-- SAFETY DATA SHEET --

Ref. 000002890/N/NS

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Print date 2003-07-28

Revision date: 2002-02-14

AGRICULTURAL PRODUCTS DEPARTMENT

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product code: B10480592

Product name: TANOS*

Supplier:
Du Pont de Nemours (France) S.A.S.
137, rue de l'Université
F-75334 Paris Cedex 07 / France
Tel: (33) 1 45 50 65 50

Emergency telephone number:
+44-2871-861.313 (GB)

Du Pont de Nemours International S.A.
2, chemin du Pavillon
CH-1218 Le Grand Saconnex/GE-Switzerland
Tel: (22) 717 51 11

(44) (0) 2871 861 313 (English)
(49) (0) 202 529 6655 (German)
(35) (0) 2 3666 6543 (French)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation: oxazolidinedione and acetamide based fungicide

Synonyms: DPX-KP481 WG

Hazardous components	Weight %	CAS-No	EC-No.	Index-No
Cymoxanil (active ingredient)	25	57966-95-7	261-043-0	616-035-00-5
Famoxadone (active ingredient)	25	131807-57-3		

Classification
Cymoxanil; Xn; R22-R43; N; R50/53
Famoxadone N;R50/53

Chemical name of the substance
Cymoxanil; 1-(2-cyano-2-methoxyiminoacetyl)-3-ethylurea
Famoxadone; 3-Anilino-5-methyl-5-(4-phenoxypheyl)-2,4-oxazolidinedione

3. HAZARDS IDENTIFICATION

Most important hazards: Harmful if swallowed.
Specific hazards: None known.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician after significant exposure.
Skin contact: Wash off immediately with soap and plenty of water.
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
Ingestion: Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: water spray, foam, dry powder, carbon dioxide (CO2)
Extinguishing media which must not be used for safety reasons: high volume water jet (contamination risk)

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Specific methods: (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 spray water.

* DuPont's registered trademark

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: wear personal protective equipment

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Clean up promptly by sweeping or vacuum. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal.

7. HANDLING AND STORAGE

Handling

Technical measures/Precautions: Provide appropriate exhaust ventilation at places where dust is formed. Safe handling advice: Keep away from heat and sources of ignition. Avoid dust formation in confined areas.

Storage

Technical measures/Storage conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only.

Incompatible products: No materials to be specially mentioned

Packaging material: No materials to be specially mentioned

Further information: Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Control parameters:

Cymoxanil; DuPont's acceptable exposure limit: AEL(8-h and 12-h TWA) = 2 mg/m³; DuPont(1999)

Famoxadone; DuPont's Acceptable Exposure Limit: AEL(8-h and 2-h TWA) = 2mg/m³; DuPont(1999)

Personal protective equipment

Respiratory protection: respirator with P1 filter.

Eye protection: safety glasses.

Hand protection: protective gloves.

Skin and body protection: protective suit.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: dry flowable water dispersible granules

Colour: brown

Odour: sweet

pH: (20 °C)

(10 g/l H₂O)

5 - 7

Flash point:

Not applicable

Explosion limits

- lower

0,031 g/l

Relative density:

no data available

Bulk density

600 kg/m³

Autoignition temperature

> 360 °C

Solubility

- water solubility:

dispersible

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10. STABILITY AND REACTIVITY

Stability: No decomposition if stored and applied as directed.
Hazardous decomposition products: carbon oxides, nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:
LD50/oral/rat = 1732 mg/kg (male); 566 mg/kg (female)
LD50/dermal/rabbit = > 5000 mg/kg
LC50/inhalation/4h/rat = > 5.1 mg/l

Local effects:
Eye irritation: No eye irritation.
Skin irritation: No skin irritation.

Specific effects: Harmful if swallowed.

Sensitization: Did not cause sensitization on laboratory animals.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish and other aquatic fauna:
LC50/96h/rainbow trout = 0.028 mg/l
EC50/48h/daphnia = > 0.2 mg/l

Cymoxanil
Toxicity to algae:
EC50/72h/algae = 0.35 mg/l

Toxicity to birds:
LC50/8 days/mallard duck = > 2250 mg/kg
LC50/8 days/bobwhite quail = > 2250 mg/kg

Bioaccumulation: log POW = 0.66 (pH7)

Famoxadone
Toxicity to algae:
EC50/120h/algae = 0.027 mg/l

Toxicity to birds:
LC50/8 days/mallard duck = > 5620 mg/kg
LC50/8 days/bobwhite quail = > 5620 mg/kg

Persistence and degradability: According to the results of tests of biodegradability this product is considered as being readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: In accordance with local and national regulations.. Do not allow material to contaminate ground water system.

Contaminated packaging: Do not re-use empty containers Do not contaminate ponds, waterways or ditches with chemical or used container.

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14. TRANSPORT INFORMATION

UN-No: 3077

ADR/RID

Class: 9	Code: M7	TREM-CARD: 90GM7-III-A
Packing group: III	HI-No:: 90	SI-No: 3077
Hazard labels: 9		
Proper shipping name: UN 3077 Environmentally hazardous substance, solid, n.o.s. (famoxadone, cymoxanil), 9, III		

IMO

Not regulated. Possible optional classification as per IMDG Code "Special Provision 909", described as :

Class: 9	Packing group: III	EmS: -
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Hazard labels: 9, MARINE POLLUTANT mark

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (famoxadone 25%), Class 9, UN 3077, PG III, Marine pollutant

ICAO

Not regulated. Possible optional classification as per IATA "Special Provision A97", described as
:
Class: 9 Packing group: III
Hazard labels: 9
Packing instruction (passenger aircraft): 911 kg / No limit
Packing instruction (cargo aircraft) 911 kg / No limit
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (famoxadone), Class 9,
UN 3077, PG III

15. REGULATORY INFORMATION

According to EC-Directive 78/631 (pesticides), as amended, the product has to be classified and labelled as follows::

Contains: Cymoxanil, Famoxadone

Symbol(s): Xn - Harmful

R-phrase(s): R22 - Harmful if swallowed.

S-phrase(s): S2 - Keep out of reach of children.
S13 - Keep away from food, drink and animal feeding stuffs.
S20/21 - When using, do not eat, drink or smoke.
S35 - This material and its container must be disposed of in a safe way.
S46 - If swallowed, seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

Recommended use: fungicide

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 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.