

**DuPont™ Curzate® M-8 72WP**

Version 2.2

Revision Date 21.12.2010

Ref. 13000028882

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

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

Product name : DuPont™ Curzate® M-8 72WP
Other names : B10054301

Recommended use of the chemical and restriction on use

No information available.

Manufacturer or supplier's details

Company : Du Pont Vietnam Ltd
Street address : 12 Thong Nhat, Song Than 2 Industrial zone, Di An Binh Duong Province Viet Nam
Telephone : (84 8) 3824 3192 / (84 8) 3824 3193
Telefax : (84 8) 3824 3191

Emergency telephone number : +(84-8) 3823 8835

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Components

| Chemical Name | CAS-No. | Concentration |
|-------------------|------------|---------------|
| Mancozeb | 8018-01-7 | 64 % |
| Cymoxanil | 57966-95-7 | 8 % |
| Inert Ingredients | | 28 % |

3. HAZARDS IDENTIFICATION**Product hazard category**

| | |
|--|-------------|
| Serious eye damage/eye irritation | Category 2A |
| Carcinogen | Category 1B |
| Target Organ Systemic Toxicant - Repeated exposure | Category 2 |
| Acute aquatic toxicity | Category 1 |
| Chronic aquatic toxicity | Category 1 |

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Label content

Pictogram

:



Signal word

: Danger

Hazardous warnings

: May cause damage to organs through prolonged or repeated exposure. (Thyroid)
 Causes serious eye irritation.
 May cause cancer.
 Very toxic to aquatic life with long lasting effects.

Hazardous prevention measures

: Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 Wash hands thoroughly after handling.
 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 IF exposed or concerned: Get medical advice/ attention.
 If eye irritation persists: Get medical advice/ attention.
 Collect spillage.
 Store locked up.
 Dispose of contents/container in accordance with local regulation.

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

First aid measures for different exposure routes

Inhalation

: Move to fresh air. Call a poison control center or doctor for treatment advice.
 Oxygen or artificial respiration if needed.

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.

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.

Ingestion

: 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. Never give anything by mouth to an unconscious person. Call a poison control center or doctor for treatment advice.

Main symptoms and

: No information available.


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hazards
Protection of first-aiders : No information available.

Notes to physician : No information available.

5. FIRE-FIGHTING MEASURES

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

Specific hazards : Under severe dusting conditions, this material may form explosive mixtures in air.

Evacuate personnel and keep upwind of fire. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire fighting to enter drains or water courses. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.

Specific firefighting procedures : No information available.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Review sections 5 and 7 of the SDS before proceeding with clean-up. Use personal protective equipment.
Dispose of in accordance with local regulations.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Methods for cleaning up : Clean-up methods - large spillage Prevent further leakage or spillage. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal. Clean-up methods - small spillage Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. HANDLING AND STORAGE
Handling

Technical measures/Precautions : Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Avoid dust formation.

Precautions for safe handling : Under severe dusting conditions, this material may form explosive mixtures in air.

Storage

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Suitable storage conditions : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place. Store product in original container only in a location inaccessible to children and pets.

Stable under recommended storage conditions.

8. EXPOSURE PREVENTION MEASURES

Engineering measures : Use only with adequate ventilation.

Control parameters
No information available.

Biological standards : No information available.

Personal protective equipment

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.

Hand protection : Material: Protective gloves

Eye protection : Wear protective eyewear to prevent contact with this substance.

Skin and body protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

Hygiene measures : Avoid contact with skin, eyes and clothing. Avoid breathing dust. 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. Wash thoroughly and put on clean clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance (Physical state, form, colour, etc.)**

Physical state : solid

Form : powder

Colour : light yellow

Odour : sulphurous

Odour Threshold : no data available

pH : 7.4
(1% solution in water)

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Melting point/freezing point

no data available

Boiling point/boiling range

no data available

Flammability (solid, gas) : no data available**Flash point** : no data available**Decomposition temperature** : no data available**Autoignition temperature** : no data available**Explosion limits**

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : no data available**Vapour density** : no data available**Density**Bulk density : 290 kg/m³ loose 410 kg/m³ packed**Solubility(ies)**

Water solubility : dispersible

Solubility in other solvents : no data available

Partition coefficient: : no data available**n-octanol/water****Volatility rate** : no data available**10. STABILITY AND REACTIVITY**

Stability : May undergo decomposition upon prolonged exposure to heat.

Possible hazardous reactions under specific conditions : Decomposes slowly on exposure to water. Avoid moisture.

Conditions to avoid : No information available.

Materials to avoid : Incompatible with oxidizing agents.
Incompatible with acids.
Incompatible with water.


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Hazardous decomposition products : Hydrogen cyanide (hydrocyanic acid), carbon disulfide

11. TOXICOLOGICAL INFORMATION

Acute toxicity : DuPont™ Curzate® M-8 72WP:
 Oral: LD50/rat : 7,664 mg/kg
 Inhalation: LC50/rat : > 5.4 mg/l
 Dermal: LD50/rat : > 5,000 mg/kg

Skin corrosion/irritation : DuPont™ Curzate® M-8 72WP:
 Species: rabbit
 Result: No skin irritation

Serious eye damage/eye irritation : DuPont™ Curzate® M-8 72WP:
 Species: rabbit
 Result: Eye irritation

Respiratory sensitization / Skin sensitization : DuPont™ Curzate® M-8 72WP:
 Species: guinea pig
 Classification: Did not cause sensitization on laboratory animals.

Mutagenicity : no data available

Carcinogenicity : no data available

Reproductive toxicity : no data available

Target Organs : Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

Aspiration toxicity : no data available

12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Toxicity to fish : DuPont™ Curzate® M-8 72WP:
 LC50/96 h/Oncorhynchus mykiss (rainbow trout): 0.46 mg/l

Other : DuPont™ Curzate® M-8 72WP:
 EbC50/72 h/Pseudokirchneriella subcapitata: 0.029 mg/l
 EC50/48 h/Daphnia magna (Water flea): 0.71 mg/l

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NOEC/21 d/Daphnia magna (Water flea): 0.01 mg/l
(Data on the product itself)

Persistence and degradability : no data available

Bioaccumulation : no data available

Mobility in soil : no data available

Other adverse effects : DuPont™ Curzate® M-8 72WP:

See product label for additional application instructions relating to environmental precautions.

13. DISPOSAL CONSIDERATIONSWaste disposal methods : In accordance with local and national regulations. The product should not be allowed to enter drains, water courses or the soil.
Used package: Do not re-use empty containers.**14. TRANSPORT INFORMATION****IMDG**UN number : 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.
(Mancozeb, Cymoxanil)
Class : 9
Packaging group : III
Marine pollutant : yes (Mancozeb, Cymoxanil)Matters needing attention for transportation : Not regulated as a hazardous material by IATA.
Optional classification as per IATA Special Provision A97.**15. REGULATORY INFORMATION**

Refer to section 3 of this MSDS for classification according to the GHS.

16. OTHER INFORMATION

Literary reference : US MSDS No.: M0000141

Department : Name: Australian Regulatory Group
Telephone: +61 2 9923 6111

Responsible/issuing person : Regulatory Affairs

**DuPont™ Curzate® M-8 72WP**

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

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