SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont™ Curzate® 60DF Fungicide
Tradename/Synonym : B10923139
DPX-T3217 60WG

Product Use : Fungicide

Restrictions on use : Do not use product for anything outside of the above specified uses

Manufacturer/Supplier : DuPont
4417 Lancaster Pike
Wilmington, DE 19805, USA

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category
Acute toxicity (Oral) Category 4
Skin sensitisation Category 1
Specific target organ toxicity - repeated exposure Category 2
Label content

Pictogram:

Signal word: Warning

Hazardous warnings:
- Harmful if swallowed.
- May cause an allergic skin reaction.
- May cause damage to organs through prolonged or repeated exposure.
  (thymus, Respiratory system)

Hazardous prevention measures:
- Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- Wash skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective gloves.
- IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
- IF ON SKIN: Wash with plenty of soap and water.
- Get medical advice/ attention if you feel unwell.
- Rinse mouth.
- If skin irritation or rash occurs: Get medical advice/ attention.
- Wash contaminated clothing before reuse.
- Dispose of contents/ container to an approved waste disposal plant.

Other hazards:
No applicable data available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
DuPont™ Curzate® 60DF Fungicide

SECTION 4. FIRST AID MEASURES

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.

Inhalation: No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

Skin contact: The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable.

Eye contact: Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

Ingestion: If swallowed, call a poison control centre or doctor immediately. 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.
Most important symptoms/effects, acute and delayed: No applicable data available.
Protection of first-aiders: No applicable data available.
Notes to physician: No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable extinguishing media: High volume water jet, (contamination risk)
Specific hazards: No applicable data available.

Special protective equipment for firefighters: Wear full protective clothing and self-contained breathing apparatus.

Further information: Evacuate personnel and keep upwind of fire. Control Runoff. (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.

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

Spill Cleanup: Sweep up and shovel into suitable containers for disposal.

Accidental Release Measures: 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.

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

Dust explosion class: No applicable data available.

Storage: Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Keep container closed when not in use. Store in original container. Keep out of the reach of children.

Storage period: No applicable data available.

Storage temperature: No applicable data available.

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: Applicators and other handlers must wear:
- Long sleeved shirt and long pants
- 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:
  - Coveralls worn over long-sleeved shirt and long pants
  - Chemical resistant gloves made of any waterproof material
  - Shoes plus socks

Protective measures: Use this product in accordance with its label. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. 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. During aerial application, human flaggers must be in enclosed cabs.
Exposure Guidelines
Exposure Limit Values

Cymoxanil
AEL *  (DUPONT)  2 mg/m3  15 minute TWA

Alkylnaphthalenesulfonic acid, sodium salt/formaldehyde polycondensate
No applicable data available.

* 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
  Physical state : solid
  Form : solid, granules
  Color : brown

Odor : very faint

Odor threshold : No applicable data available.

pH : No applicable data available.

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : No applicable data available.

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.
Vapour Pressure : No applicable data available.
Vapour density : No applicable data available.
Specific gravity (Relative density) : No applicable data available.
Water solubility : dispersible
Solubility(ies) : No applicable data available.
Partition coefficient: n-octanol/water : No applicable data available.
Auto-ignition temperature : No applicable data available.
Decomposition temperature : No applicable data available.
Viscosity, kinematic : No applicable data available.
Viscosity, dynamic : No applicable data available.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No applicable data available.
Chemical stability : Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions : Polymerization will not occur.
Conditions to avoid : None reasonably foreseeable.
Incompatible materials : No materials to be especially mentioned.
Hazardous decomposition products : No applicable data available.

**SECTION 11. TOXICOLOGICAL INFORMATION**

DuPont™ Curzate® 60DF Fungicide

Inhalation 4 h LC50 : > 5.0 mg/l, Rat
Dermal LD50 : > 5,000 mg/kg, Rat
Safety Data Sheet

DuPont™ Curzate® 60DF Fungicide

Version 2.0

Revision Date 06/24/2015

Ref. 130000013486

Oral LD50 : 433 mg/kg, Rat
Skin irritation : slight irritation, Rabbit
Eye irritation : slight irritation, Rabbit
Sensitisation : May cause sensitisation by skin contact., Guinea pig

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.

Mutagenicity : Animal testing did not show any mutagenic effects.
  Evidence suggests this substance does not cause genetic damage in cultured bacterial cells.
  Tests on mammalian cell cultures showed mutagenic effects.

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.

Fumed silica, crystalline-free
Repeated dose toxicity :
Inhalation
Rat - 91 d
dust/mist
Target Organs: Respiratory system

8 / 12
Respiratory effects, Information given is based on data obtained from similar substances.

Mutagenicity: Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Teratogenicity: Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.

Carcinogenicity
The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

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 12. ECOLOGICAL INFORMATION

Aquatic Toxicity
DuPont™ Curzate® 60DF Fungicide

96 h LC50: Oncorhynchus mykiss (rainbow trout) 35 mg/l OECD Test Guideline 203

96 h LC50: Lepomis macrochirus (Bluegill sunfish) 29 mg/l

48 h EC50: Daphnia magna (Water flea) 10.7 mg/l OECD Test Guideline 202

Cymoxanil
72 h ErC50: Pseudokirchneriella subcapitata (green algae) 2.39 mg/l

21 d: NOEC Oncorhynchus mykiss (rainbow trout) 0.22 mg/l

21 d: NOEC Daphnia magna (Water flea) 0.067 mg/l

Environmental Fate
Fumed silica, crystalline-free
Bioaccumulation: Does not bioaccumulate.
SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods - Product: 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.

Waste disposal methods - Container: 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 1-800-441-3637 day or night.

Contaminated packaging: No applicable data available.

SECTION 14. TRANSPORT INFORMATION

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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

Other regulations: This Safety Data Sheet is for a pesticide product registered by the US Environmental Protection Agency (USEPA) and is therefore also subject to certain labeling requirements under US pesticide law (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the mandatory hazard information required by USEPA on the pesticide label:

WARNING!

May be fatal if swallowed. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

SARA 313 Regulated Chemical(s): This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

PA Right to Know Regulated Chemical(s): Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Sucrose, Sodium sulphate, Fumaric acid, Fumed silica, crystalline-free

Title III hazard classification: Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire: No
Reactivity/Physical hazard: No
Pressure: No

EPA Reg. No.: 352-592

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.
SECTION 16. OTHER INFORMATION

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

Revision Date : 06/24/2015

Contact person : DuPont Crop Protection, Wilmington, DE, 19898, Phone: 1-888-638-7668

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.

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