

Version 3.0

Issue Date : 03/18/2019 Ref. 130000013486

Revision Date : 02/07/2019

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

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

974 Centre Road

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 : +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 - Category 2

repeated exposure

Label content

Pictogram :



Signal word : Warning



Version 3.0

Issue Date : 03/18/2019 Ref. 130000013486

Revision Date : 02/07/2019

Hazardous warnings : Harmful if swallowed.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

(thymus)

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/doctor if you feel unwell. Rinse

mouth.

IF ON SKIN: Wash with plenty of soap and water. Get medical advice/ attention if you feel unwell.

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

Information presented in Section 2 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 30.8798 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Cymoxanil	57966-95-7	60 %
Modified Aromatic Sulfonate Salt		1 - 5 %
Fumed silica, crystalline-free	112945-52-5	1 - 5 %



Version 3.0

Issue Date 03/18/2019

Revision Date 02/07/2019 Ref. 130000013486

Other Ingredients	30 - 38 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

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.

Information presented in Section 4 conforms to the requirements of the

Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state

Regulatory Agencies.

Inhalation : Move to fresh air. If person is not breathing, call 911 or an ambulance, then

give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison

control center or doctor for treatment advice.

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 : 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.

: No applicable data available.

Most important

symptoms/effects, acute

and delayed

Protection of first-aiders Notes to physician

: No applicable data available. : No applicable data available.



Version 3.0

Issue Date : 03/18/2019 Ref. 130000013486

Revision Date : 02/07/2019

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

4/13



Version 3.0

Issue Date : 03/18/2019 Ref. 130000013486

Revision Date : 02/07/2019

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. Information presented in Section 8 conforms to the requirements of the

Occupational Safety and Health Administration (OSHA) Hazard

Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection

Agency (EPA), or by state Regulatory Agencies.

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. Provide

adequate ventilation.

Hand protection : Additional protection: See skin and body protection

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



Version 3.0

Issue Date : 03/18/2019 Ref. 130000013486

Revision Date : 02/07/2019

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

Modified Aromatic Sulfonate Salt

No applicable data available.

Fumed silica, crystalline-free			
PEL (Permissible	(OSHA)	20 Million particles per	TWA
Exposure Limit)		cubic foot	
PEL (Permissible	(OSHA)	80 mg/m3 / %SiO2	TWA
Exposure Limit)			
REL	(NIOSH)	6 mg/m3	Time-weighted average concentration
			for up to a 10-hour workday during a
			40-hour workweek
AEL *	(DuPont)	1 mg/m3	8 & 12 hr. TWA

Ī	Modified Aromatic Sulfonate Salt
Ī	No applicable data available.

Fumaric acid		
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



Version 3.0

Issue Date : 03/18/2019 Ref. 130000013486

Revision Date : 02/07/2019

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.



Version 3.0

Issue Date : 03/18/2019 Ref. 130000013486

Revision Date : 02/07/2019

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

Oral LD50 : 433 mg/kg , Rat

Skin irritation : slight irritation, Rabbit

Minimal effects that do not meet the threshold for classification.

Eye irritation : slight irritation, Rabbit

Minimal effects that do not meet the threshold for classification.

Sensitisation : May cause sensitisation by skin contact., Guinea pig

Further information : Information presented in this Section conforms to the requirements of

the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory

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Cymoxanil

Repeated dose toxicity

The following effects occurred at levels of exposure that significantly

exceed those expected under labeled usage conditions.



Version 3.0

Issue Date : 03/18/2019 Ref. 130000013486

Revision Date : 02/07/2019

Oral

multiple species

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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 : Ingestion

Rat - 90 d

NOAEL: 4,000 mg/kgMethod: OECD Test Guideline 408

No toxicologically significant effects were found.

Skin contact Rabbit - 21 d

NOAEL: > 10,000 mg/kg

No toxicologically significant effects were found.

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.



Version 3.0

Issue Date : 03/18/2019 Ref. 130000013486

Revision Date : 02/07/2019

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

Information source: Internal study report

(Data on the product itself)

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

72 h ErC50 : Pseudokirchneriella subcapitata (green algae) > 10 mg/l OECD Test

Guideline 201

Information source: Internal study report

(Data on the product itself)

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

Information source: Internal study report

(Data on the product itself)

Cymoxanil

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

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.

10 / 13



Version 3.0

IMDG

Issue Date : 03/18/2019 Ref. 130000013486

Revision Date : 02/07/2019

Waste disposal methods - : Container Refilling and Disposal:

Container Refer to the product label for instructions.

Do not transport if this container is damaged or leaking.

Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

IATA_C UN number : 3077

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

(Cymoxanil)

Class : 9
Packing group : III
Labelling No. : 9
UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (Cymoxanil)

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

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 various state regulatory agencies, and is therefore also subject to certain requirements under US and state pesticide laws, including the Federal Insecticide Fungicide and Rodenticide Act (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 information

determined by USEPA, and various states.



Version 3.0

Issue Date : 03/18/2019

Revision Date : 02/07/2019

Ref. 130000013486

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 311/312 Hazard

classification

: Acute toxicity (any route of exposure)

Respiratory or skin sensitisation

Specific target organ toxicity (single or repeated exposure)

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

CERCLA Reportable

Quantity

: Based on the percentage composition of this chemical in the product.:

Fumaric acid	
Naphthalene	

SARA Reportable Quantity

: This material does not contain any components with a SARA 302 RQ.

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.

California Prop. 65

: This product can expose you to Naphthalene, which is/are known to the State

of California to cause cancer. For more information go to

www.P65Warnings.ca.gov.

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



Version 3.0

Issue Date : 03/18/2019 Ref. 130000013486

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Contact person : DuPont Crop Protection, Wilmington, DE, 19805, 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.