

CURZATE 60 WG

Ref. 130000013486
Version 2.2 (replaces: Version 2.1)

Revision Date 09.08.2019
Issue Date 09.08.2019

This safety data sheet is based on the structure provided by the standards of the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (UN GHS), and includes the classification and identification information under internationally recognized rules. Available exposure limits may not meet regulatory standards for all countries.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : CURZATE 60 WG
Synonyms : B10923139
DPX-T3217 60WG

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Fungicide

1.3. Details of the supplier of the safety data sheet

Company : DuPont International Operations S.a.r.l.
2, chemin du Pavillon
CH-1218 Le Grand-Saconnex / GE
Switzerland

Telephone : +41 (0) 22 717 51 11

Telefax : +41 (0) 22 717 51 09

E-mail address : SDS@Corteva.com

1.4. Emergency telephone number

Emergency telephone number : +(44)-870-8200418 (CHEMTREC)
: Poison Centres may only possess information required for products in accordance with Regulation (EC) No 1272/2008 and national legislation.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008 (CLP)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EU) 1272/2008 (CLP)



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Warning

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Special labelling of certain substances and mixtures

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 14,2 %

P201	Obtain special instructions before use.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P391	Collect spillage.
P501	Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Labelling according to EU Directives 67/548/EEC or 1999/45/EC

SP 1	Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
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2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures

Classification according to Directive 67/548/EEC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration
Cymoxanil (CAS-No.57966-95-7) (EC-No.261-043-0)		
Repr.Cat.3;R62 R63 Xn;R22 R48/22 R43 N;R50	Acute Tox. 4; H302 Skin Sens. 1; H317 Repr. 2; H361fd STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	60 %

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R53		
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Alkylnaphthalenesulfonic acid, sodium salt/formaldehyde polycondensate (CAS-No.68425-94-5)

Xi;R36/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 5 %
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Fumaric acid (CAS-No.110-17-8) (EC-No.203-743-0)

Xi;R36	Eye Irrit. 2; H319	>= 1 - < 5 %
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Fumed silica, crystalline-free (CAS-No.112945-52-5) (EC-No.231-545-4)

		>= 1 - < 5 %
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For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures**

- General advice : Never give anything by mouth to an unconscious person.
- Inhalation : Move to fresh air. Consult a physician after significant exposure. Artificial respiration and/or oxygen may be necessary.
- Skin contact : Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.
- Eye contact : If easy to do, remove contact lens, if worn. Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist.
- Ingestion : Obtain medical attention. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is conscious: Rinse mouth with water.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms :
- : Eye contact may provoke the following symptoms:, Conjunctivitis.
 - : Skin contact may provoke the following symptoms:, Local irritation
 - : Inhalation may provoke the following symptoms:, Rhinitis
 - : Ingestion may provoke the following symptoms:, Gastrointestinal disturbance, Nausea, Diarrhoea, Vomiting

4.3. Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Extinguishing media which shall not be used for safety reasons : High volume water jet, (contamination risk)

5.2. Special hazards arising from the substance or mixture

Specific hazards during firefighting : Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO₂) Nitrogen oxides (NO_x)

5.3. Advice for firefighters

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

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

: (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

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Control access to area. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing dust. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so. Use appropriate container to avoid environmental contamination. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. If the spill area is porous, the contaminated material must be collected for subsequent treatment or disposal. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Clean-up methods - small spillage Sweep up or vacuum up spillage and collect in suitable container for disposal.

Clean-up methods - large spillage Avoid dust formation. Knock down dust with water spray jet. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

If spill area is on ground near valuable plants or trees, remove 5 cm of top soil

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after initial clean-up.

Other information : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

6.4. Reference to other sections

For personal protection see section 8., For disposal instructions see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

Use only according to our recommendations. Use only clean equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist. Wear personal protective equipment. For personal protection see section 8. Prepare the working solution as given on the label(s) and/or the user instructions. Use prepared working solution as soon as possible - Do not store. Provide appropriate exhaust ventilation at places where dust is formed.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Avoid dust formation in confined areas. During processing, dust may form explosive mixture in air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in a place accessible by authorized persons only. Store in original container. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

Advice on common storage : No special restrictions on storage with other products.

German storage class : 11 : Combustible Solids

Other data : Stable under recommended storage conditions.

7.3. Specific end use(s)

Plant protection products subject to Regulation (EC) No 1107/2009.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

If sub-section is empty then no values are applicable. For further information on any control parameters provided, please refer to the relevant regulation.

Sucrose (CAS-No. 57-50-1)

8-hour, time-weighted average	10 mg/m ³	2007-01-01	USA. ACGIH Threshold Limit Values (TLV)
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8.2. Exposure controls

Engineering measures : Ensure adequate ventilation, especially in confined areas. Provide for appropriate exhaust ventilation and dust collection at machinery. Use sufficient

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- ventilation to keep employee exposure below recommended limits.
- Eye protection : Safety glasses with side-shields conforming to EN166
- Hand protection : Material: Nitrile rubber
Glove thickness: 0,4 - 0,7 mm
Glove length: Gauntlets of 35 cm long or longer.
Protection index: Class 6
Wearing time: 8 h
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Gauntlets shorter than 35 cm long shall be worn under the combination sleeve. Gauntlets of 35 cm long or longer shall be worn over the combination sleeve.
- Skin and body protection : Manufacturing and processing work: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034)
Mixer and loaders must wear: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Rubber apron Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required.
Tractor / sprayer without hood: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Backpack / knapsack sprayer: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Spray application - indoor: Motorized greenhouse sprayer: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Backpack / knapsack sprayer: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Mechanical automatized spray application in closed tunnel: No personal body protection normally required.
When exceptional circumstances would require an access to the treated area before the end of re-entry periods, wear full protective clothing Type 6 (EN 13034), nitrile rubber gloves class 2 (EN 374) and nitrile rubber boots (EN 13832-3 / EN ISO 20345).
To optimize the ergonomics it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.
Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use.
The permeation resistance of the fabric must be verified independently of the « type » protection recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure.
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. Only protected handlers may be in the area during application.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Regular

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Respiratory protection	:	<p>cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. For environmental protection remove and wash all contaminated protective equipment before re-use. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Dispose of rinse water in accordance with local and national regulations. Wash hands before breaks and at the end of workday.</p> <p>Manufacturing and processing work: Half mask with a particle filter FFP1 (EN149)</p> <p>Mixer and loaders must wear: Half mask with a particle filter FFP1 (EN149)</p> <p>Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory protective equipment normally required.</p> <p>Tractor / sprayer without hood: Low application: Half mask with a particle filter FFP1 (EN149) Middle-height application: Half mask with a particle filter FFP2 (EN149)</p> <p>Backpack / knapsack sprayer: Low application: Half mask with a particle filter FFP1 (EN149) Middle-height application: Half mask with a particle filter FFP2 (EN149)</p> <p>Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.</p>
Environmental exposure controls	:	<p>Air: Knock down dust with water spray jet.</p> <p>Soil: Avoid subsoil penetration. Pick up contaminated soil.</p> <p>Water: Retain and dispose of contaminated wash water.</p>

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	:	solid, granules
Colour	:	brown
Odour	:	very faint
Odour Threshold	:	not determined
pH	:	no data available
Melting point/range	:	not determined
Boiling point/boiling range	:	no data available
Flash point	:	Not applicable
Self-Accelerating decomposition temperature (SADT)	:	no data available
Flammability (solid, gas)	:	The product is not flammable.
Ignition temperature	:	no data available
Thermal decomposition	:	Not available for this mixture.
Oxidizing properties	:	The product is not oxidizing.

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Explosive properties	: Not explosive
Lower explosion limit/ Lower flammability limit	: Not available for this mixture.
Upper explosion limit/ upper flammability limit	: Not available for this mixture.
Vapour pressure	: Not available for this mixture.
Density	: no data available
Relative density	: Not available for this mixture.
Bulk density	: 650 kg/m ³ , packed
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: Not available for this mixture.
Solubility in other solvents	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available
Relative vapour density	: Not available for this mixture.
Evaporation rate	: Not available for this mixture.

9.2. Other information

No other data to be specially mentioned.

SECTION 10: Stability and reactivity

10.1. Reactivity	: No hazards to be specially mentioned.
10.2. Chemical stability	: The product is chemically stable under recommended conditions of storage, use and temperature.
10.3. Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use. Polymerization will not occur. No decomposition if stored and applied as directed.
10.4. Conditions to avoid	: Exposure to moisture Decomposes slowly on exposure to water. To avoid thermal decomposition, do not overheat. Under severe dusting conditions, this material may form explosive mixtures in air.
10.5. Incompatible materials	: No materials to be especially mentioned.
10.6. Hazardous decomposition products	: No materials to be especially mentioned.

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SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute oral toxicity

LD50 / Rat : 433 mg/kg
Method: OECD Test Guideline 401
(Data on the product itself) Information source: Internal study report

- Fumed silica, crystalline-free
LD50 / Rat : > 3 300 mg/kg

Acute inhalation toxicity

LC50 / 4 h Rat : > 5,0 mg/l
Method: OECD Test Guideline 403
(Data on the product itself) Information source: Internal study report

- Fumed silica, crystalline-free
LC50 / 4 h Rat
Method: OECD Test Guideline 403
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity

LD50 / Rat : > 5 000 mg/kg
Method: OECD Test Guideline 402
(Data on the product itself) Information source: Internal study report

- Fumed silica, crystalline-free
LD50 / Rabbit : > 2 000 mg/kg
Information given is based on data obtained from similar substances.

Skin irritation

Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404
(Data on the product itself) Information source: Internal study report

- Fumed silica, crystalline-free
Rabbit
Classification: No skin irritation
Result: No skin irritation

Eye irritation

Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
(Data on the product itself) Information source: Internal study report

- Fumed silica, crystalline-free

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Rabbit
Classification: No eye irritation
Result: No eye irritation

Respiratory or skin sensitisation

Guinea pig Maximisation Test
Result: Causes sensitisation.
Method: OECD Test Guideline 406
(Data on the product itself) Information source: Internal study report

Repeated dose toxicity

- Cymoxanil
The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral multiple species
altered blood chemistry, No effect to neurotoxicity.

Oral multiple species
The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions., altered blood chemistry

Oral - feed Dog
Exposure time: 90 d
Thymus effects

- Fumed silica, crystalline-free
Ingestion Rat
Exposure time: 90 d
NOAEL: 4 000 mg/kg
Method: OECD Test Guideline 408
No toxicologically significant effects were found.

Skin contact Rabbit
Exposure time: 21 d
NOAEL: > 10 000 mg/kg
No toxicologically significant effects were found.

Mutagenicity assessment

- Cymoxanil
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.
- Fumed silica, crystalline-free
Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment

- Cymoxanil
Not classifiable as a human carcinogen. Did not show carcinogenic effects in animal experiments.

Toxicity to reproduction assessment

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- Cymoxanil
Suspected human reproductive toxicant Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

Assessment teratogenicity

- Cymoxanil
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
- Fumed silica, crystalline-free
Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.

STOT - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Blood thymus gland
The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Aspiration hazard

The mixture does not have properties associated with aspiration hazard potential.

SECTION 12: Ecological information**12.1. Toxicity**

Toxicity to fish

LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 35 mg/l
Method: OECD Test Guideline 203
Information source: Internal study report (Data on the product itself)

- Fumed silica, crystalline-free
LC50 / 96 h / Fish (unspecified species)
Method: OECD Test Guideline 203
No acute toxicity effects at concentrations up to the limit of aqueous solubility

Toxicity to aquatic plants

ErC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae): > 10 mg/l
Method: OECD Test Guideline 201
Information source: Internal study report (Data on the product itself)

- Fumed silica, crystalline-free
EC50 / 72 h / Algae
No acute toxicity effects at concentrations up to the limit of aqueous solubility

NOEC / Algae

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Toxicity to aquatic invertebrates

EC50 / 48 h / Daphnia magna (Water flea): 10,7 mg/l
Method: OECD Test Guideline 202
Information source: Internal study report (Data on the product itself)

- Fumed silica, crystalline-free
EC50 / 48 h / Daphnia magna (Water flea)
Method: OECD Test Guideline 202
No acute toxicity effects at concentrations up to the limit of aqueous solubility

Chronic toxicity to aquatic Invertebrates

- Cymoxanil
NOEC / 21 d / Daphnia magna (Water flea): 0,067 mg/l
Method: OECD Test Guideline 202
Information source: Internal study report

12.2. Persistence and degradability**Biodegradability**

Not readily biodegradable. Estimation based on data obtained on active ingredient.

12.3. Bioaccumulative potential**Bioaccumulation**

Does not bioaccumulate. Estimation based on data obtained on active ingredient.

12.4. Mobility in soil**Mobility in soil**

Under actual use conditions, there is no reasonable expectation of any movement of the product from the top soil layer.

12.5. Results of PBT and vPvB assessment**PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects**Additional ecological information**

No other ecological effects to be specially mentioned. See product label for additional application instructions relating to environmental precautions.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent

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authorities. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Do not re-use empty containers.

SECTION 14: Transport information**ADR**

- 14.1. UN number: 3077
 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cymoxanil)
 14.3. Transport hazard class(es): 9
 14.4. Packing group: III
 14.5. Environmental hazards: For further information see Section 12.
 14.6. Special precautions for user:
 Tunnel restriction code: (-)

IATA_C

- 14.1. UN number: 3077
 14.2. UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Cymoxanil)
 14.3. Transport hazard class(es): 9
 14.4. Packing group: III
 14.5. Environmental hazards : For further information see Section 12.
 14.6. Special precautions for user:
 DuPont internal recommendations and transport guidance: ICAO / IATA cargo aircraft only

IMDG

- 14.1. UN number: 3077
 14.2. UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Cymoxanil)
 14.3. Transport hazard class(es): 9
 14.4. Packing group: III
 14.5. Environmental hazards : Marine pollutant
 14.6. Special precautions for user:
 No special precautions required.
 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
 Not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Major Accident Hazard Legislation**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

ENVIRONMENTAL HAZARDS

Quantity: 100 t, 200 t

Major Accident Hazard Legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident

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hazards involving dangerous substances.
ENVIRONMENTAL HAZARDS
Quantity: 100 t, 200 t

Other regulations :

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

Take note of Dir 94/33/EC on the protection of young people at work.

Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 96/82/EC on the control of major-accident hazards involving dangerous substances.

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

This product is in full compliance according to REACH regulation 1907/2006/EC.

SECTION 16: Other information

Text of R-phrases mentioned in Section 3

R22	Harmful if swallowed.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50	Very toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.

Full text of H-Statements referred to under section 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Other information professional use

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute toxicity estimate

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CAS-No.	Chemical Abstracts Service number
CLP	Classification, Labelling and Packaging
EbC50	Concentration at which 50% reduction of biomass is observed
EC50	Median effective concentration
EN	European Norm
EPA	Environmental Protection Agency
ErC50	Concentration at which a 50% inhibition of growth rate is observed
EyC50	Concentration at which 50 % inhibition of yield is observed
IATA_C	International Air Transport Association (Cargo)
IBC	International Bulk Chemical Code
ICAO	International Civil Aviation Organization
ISO	International Standard Organization
IMDG	International Maritime Dangerous Goods
LC50	Median Lethal Concentration
LD50	Median Lethal Dose
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest observed effect level
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No observed adverse effect level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
OPPTS	Office of Prevention, Pesticides and Toxic Substances
PBT	Persistent, Bioaccumulative and Toxic
STEL	Short term exposure limit
TWA	Time Weighted Average (TWA):
vPvB	very Persistent and very Bioaccumulative

Further information

Take notice of the directions of use on the label.

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Note: The information on components provided in sections 11 and 12 of this safety data sheet may in some cases not align with a legally binding classification on the basis of technical progress and availability of new information.

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

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