



Version **Revision Date:** SDS Number: Date of last issue: -

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Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of Georgia and may not meet the regulatory requirements in other countries.

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

Product name : CURZATE® R WP

Manufacturer or supplier's details

**COMPANY IDENTIFICATION** 

Manufacturer/importer Corteva Agriscience International S.a.r.l.

> Route de Suisse 160 CH-1290 Versoix Switzerland

E-mail address SDS@corteva.com

Emergency telephone num- : +32 3 575 55 55

ber

Recommended use of the chemical and restrictions on use

Recommended use : Fungicide

#### 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) Category 4

Reproductive toxicity Category 2

Short-term (acute) aquatic

hazard

Category 1

Long-term (chronic) aquatic

hazard

Category 1

**GHS-Labelling** 

Hazard pictograms





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Signal word

Warning

Hazard statements

H302 + H332 Harmful if swallowed or if inhaled.

H361 Suspected of damaging fertility or the unborn child. H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P201 Obtain special instructions before use.

P261 Avoid breathing dust.

P264 Wash skin thoroughly after handling. P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P391 Collect spillage.

Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

## Components

Chemical name	CAS-No.	Classification	MAC value mg/m3 / TSEL value	Concentration (% w/w)
dicopper chloride trihydroxide	1332-65-6	Acute Tox.4; H302 Acute Tox.4; H332 Aquatic Acute1; H400 Aquatic Chronic1; H410	No data available	>= 60 - < 70
Barden Clay	1332-58-7		MPC-TWA: 8 mg/m3 aerosols of pre- dominantly fibro- genic action, Class 3 - Moder- ately dangerous Data Source: RU OEL	>= 10 - < 20





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cymoxanil (ISO)	57966-95-7	Acute Tox.4;	No data available	4,33
		H302		
		Acute Tox.5;		
		H333		
		Acute Tox.5;		
		H313		
		Repr.2; H361		
		Aquatic		
		Acute1; H400		
		Aquatic		
		Chronic1;		
		H410		

For explanation of abbreviations see section 16.

#### 4. FIRST AID MEASURES

General advice Never give anything by mouth to an unconscious person.

If inhaled Move to fresh air.

Oxygen or artificial respiration if needed.

Consult a physician.

In case of 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 physi-

cian.

Wash contaminated clothing before re-use.

Hold eyelids apart and flush eyes with plenty of water for at In case of eye contact

least 15 minutes. Get medical attention.

If swallowed Obtain medical attention.

Do not induce vomiting without medical advice.

If victim is conscious: Rinse mouth with water. Drink 1 or 2 glasses of water.

Most important symptoms

and effects, both acute and

delayed

No cases of human intoxication are known and the symptoms

of experimental intoxication are not known.

## 5. FIREFIGHTING MEASURES

Flammable properties

Flash point Not applicable Suitable extinguishing media Water spray

Alcohol-resistant foam

Unsuitable extinguishing me-

None known.

Specific hazards during fire-

Exposure to combustion products may be a hazard to health.

fighting

Specific extinguishing meth-

ods

Remove undamaged containers from fire area if it is safe to do

Evacuate area.

Use water spray to cool unopened containers.

Further information Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.





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Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Use personal protective equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emergency procedures

Avoid dust formation.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages can-

not be contained.

Methods and materials for containment and cleaning up

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in.

Pick up and arrange disposal without creating dust.

Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-

pressurization of the container.

Sweep up and shovel.

Keep in suitable, closed containers for disposal.

Sweep up or vacuum up spillage and collect in suitable con-

tainer for disposal.

See Section 13, Disposal Considerations, for additional infor-

mation.

## 7. HANDLING AND STORAGE

Advice on safe handling : Handle in accordance with good industrial hygiene and safety

practice.

Smoking, eating and drinking should be prohibited in the appli-

cation area.

Take care to prevent spills, waste and minimize release to the

environment.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Conditions for safe storage : Store in a closed container.

Keep in properly labelled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Strong oxidizing agents

Packaging material : Unsuitable material: None known.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters





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Components	CAS-No.	Value type (Form of ex-	Control parameters / Permissible	Basis		
		posure)	concentration			
Barden Clay	1332-58-7	MPC-TWA	8 mg/m3	RU OEL		
		(aerosol)				
	Further information: aerosols of predominantly fibrogenic action,					
	Class 3 - Moderately dangerous					
		TWA (Res-	0,1 mg/m3	2004/37/EC		
		pirable dust)				

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

Provide for appropriate exhaust ventilation and dust collec-

tion at machinery.

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Half mask with a particle filter FFP2 (EN149)

Hand protection

Eve protection

Remarks : 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. Do not wear cotton or leather gloves. Safety glasses with side-shields conforming to EN166

Skin and body protection : Lightweight protective clothing

Long sleeved clothing

Protective measures : 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.

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance

at the specific workplace.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Regular cleaning of equipment, work area and clothing. Contaminated work clothing should not be allowed out of the

workplace.

Wash hands and face before breaks and immediately after

handling the product.

When using do not eat, drink or smoke.

Keep away from food, drink and animal feedingstuffs. For environmental protection remove and wash all contami-

nated protective equipment before re-use.

Dispose of rinse water in accordance with local and national

regulations.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : wettable powder

Colour : green





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Odour : odourless

pH : 6,2 (25 °C)

Concentration: 10 g/L

Melting point/freezing point : No data available

Flash point : Not applicable

Self-ignition : 327 - 328 °C

Density : Not applicable

Bulk density : packed

Solubility(ies)

Water solubility : dispersible

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

## 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : No decomposition if stored and applied as directed.

Stable under normal conditions.

Possibility of hazardous reac-

tions

Stable under recommended storage conditions.

No hazards to be specially mentioned.

None known.

Conditions to avoid : None known.

Incompatible materials : None.

# 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

**Product:** 

Acute oral toxicity : Acute toxicity estimate: 1.452 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 3,93 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5.000 mg/kg

Method: Calculation method





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**Components:** 

dicopper chloride trihydroxide:

Acute oral toxicity : LD50 (Rat, male): 1.083 mg/kg

LD50 (Rat, female): 1.854 mg/kg

Acute inhalation toxicity : Remarks: Prolonged excessive exposure may cause adverse

effects

Dust may cause irritation to upper respiratory tract (nose and

throat).

LC50 (Rat, male): 2,83 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

LD50 (Rat, female): > 2,77 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute dermal

toxicity

**Barden Clay:** 

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

cymoxanil (ISO):

Acute oral toxicity : LD50 (Rat): 960 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Skin corrosion/irritation

**Components:** 

Barden Clay:

Species : Rabbit

Result : No skin irritation

cymoxanil (ISO):

Species : Rabbit

Result : Mild skin irritation





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#### Serious eye damage/eye irritation

## **Components:**

dicopper chloride trihydroxide:

Result : No eye irritation

**Barden Clay:** 

Species : Rabbit

Result : No eye irritation

## Respiratory or skin sensitisation

## **Components:**

dicopper chloride trihydroxide:

Remarks : Did not cause allergic skin reactions when tested in guinea

pigs.

Remarks : For respiratory sensitization:

No relevant data found.

cymoxanil (ISO):

Species : Guinea pig

Result : Does not cause skin sensitisation.

# Germ cell mutagenicity

## **Components:**

dicopper chloride trihydroxide:

Germ cell mutagenicity - As-

sessment

For similar material(s):, In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

cymoxanil (ISO):

Germ cell mutagenicity - As-

sessment

In vitro genetic toxicity studies were negative in some cases and positive in other cases., Animal genetic toxicity studies

were negative.

## Carcinogenicity

## Components:

**Barden Clay:** 

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

Available data suggest that the material is unlikely to cause

cancer.





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cymoxanil (ISO):

Carcinogenicity - Assess-

ment

: Did not cause cancer in laboratory animals.

Reproductive toxicity

**Components:** 

dicopper chloride trihydroxide:

Reproductive toxicity - As-

sessment

For similar material(s):, In animal studies, did not interfere with

reproduction.

For similar material(s):, Has been toxic to the fetus in labora-

tory animals at doses toxic to the mother.

cymoxanil (ISO):

Reproductive toxicity - As-

sessment

Suspected human reproductive toxicant

Did not cause birth defects or any other fetal effects in labora-

tory animals.

STOT - single exposure

Components:

dicopper chloride trihydroxide:

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

**Barden Clay:** 

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Repeated dose toxicity

**Components:** 

dicopper chloride trihydroxide:

Remarks : For similar material(s):

In animals, effects have been reported on the following or-

gans: Liver.

**Barden Clay:** 

Remarks : Repeated excessive exposure to crystalline silica may cause

silicosis, a progressive and disabling disease of the lungs.

cymoxanil (ISO):

Remarks : In animals, effects have been reported on the following or-

gans: Blood Thymus.





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## **Aspiration toxicity**

## **Components:**

## dicopper chloride trihydroxide:

Based on physical properties, not likely to be an aspiration hazard.

#### **Barden Clay:**

Based on physical properties, not likely to be an aspiration hazard.

#### cymoxanil (ISO):

Based on physical properties, not likely to be an aspiration hazard.

#### 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

# **Components:**

## dicopper chloride trihydroxide:

Toxicity to fish Remarks: Material is very highly toxic to aquatic organisms on

an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive

species).

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,082 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia (water flea)): < 0,1 mg/l

Exposure time: 48 h

M-Factor (Acute aquatic tox-

icity)

M-Factor (Chronic aquatic

toxicity)

10 10

cymoxanil (ISO):

LC50 (Lepomis macrochirus (Bluegill sunfish)): 13,5 mg/l Toxicity to fish

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 27 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EbC50 (Pseudokirchneriella subcapitata (green algae)): 0,35

mg/l

End point: Biomass Exposure time: 72 h

M-Factor (Acute aquatic tox- : 1

icity)





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Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 0,067 mg/l

End point: number of offspring

Exposure time: 21 d

Method: OECD Test Guideline 211 or Equivalent

LOEC (Daphnia magna (Water flea)): 0,15 mg/l

End point: number of offspring

Exposure time: 21 d

Method: OECD Test Guideline 211 or Equivalent

M-Factor (Chronic aquatic

toxicity)

v) ` .

Toxicity to soil dwelling organisms

NOEC (Eisenia fetida (earthworms)): < 500 mg/kg

Exposure time: 14 d End point: mortality Method: Other guidelines

Toxicity to terrestrial organ-

isms

oral LD50 (Anas platyrhynchos (Mallard duck)): > 2.250 mg/kg

LC50 (Colinus virginianus (Bobwhite quail)): > 2.250 mg/kg

Exposure time: 1 d End point: mortality

NOEC (Apis mellifera (bees)): 25 micrograms/bee

Exposure time: 1 d End point: mortality

LC50 (Colinus virginianus (Bobwhite quail)): 2.847 ppm

Exposure time: 5 d End point: mortality

#### Persistence and degradability

**Product:** 

Biodegradability : Remarks: Not readily biodegradable.

Estimation based on data obtained on active ingredient.

**Components:** 

dicopper chloride trihydroxide:

Biodegradability : Remarks: Biodegradability is not applicable to inorganic sub-

stances.

cymoxanil (ISO):

Biodegradability : aerobic

Inoculum: activated sludge, domestic, non-adapted

Concentration: 20 mg/l Result: Readily biodegradable.

Biodegradation: 11 % Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Fail





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aerobic

Inoculum: activated sludge, domestic, non-adapted

Concentration: 2 mg/l

Result: Readily biodegradable.

Biodegradation: 14 % Exposure time: 28 d

Method: OECD Test Guideline 301D or Equivalent

Remarks: 10-day Window: Fail

**Bioaccumulative potential** 

**Product:** 

Bioaccumulation : Remarks: This mixture contains no substance considered to

be persistent, bioaccumulating and toxic (PBT).

This mixture contains no substance considered to be very per-

sistent and very bioaccumulating (vPvB).

**Components:** 

dicopper chloride trihydroxide:

Partition coefficient: n-oc-

tanol/water

Remarks: No relevant data found.

Barden Clay:

Partition coefficient: n-oc-

tanol/water

Remarks: Partitioning from water to n-octanol is not applica-

ble.

cymoxanil (ISO):

Partition coefficient: n-oc-

tanol/water

log Pow: 4,7 (20 °C)

pH: 7

Method: OECD Test Guideline 107 or Equivalent

GLP: yes

Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Mobility in soil

**Components:** 

dicopper chloride trihydroxide:

Distribution among environ-

mental compartments

Remarks: No relevant data found.

cymoxanil (ISO):

Distribution among environ-

mental compartments

: Koc: 2,7 - 87,1

Other adverse effects

**Components:** 

dicopper chloride trihydroxide:

Results of PBT and vPvB as- :

sessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).





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Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

**Barden Clay:** 

Results of PBT and vPvB as- :

sessment

This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

cymoxanil (ISO):

Results of PBT and vPvB as- :

sessment

This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

#### 13. DISPOSAL CONSIDERATIONS

# **Disposal methods**

Waste from residues : If wastes and/or containers cannot be disposed of according

to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regu-

lations.

If the material as supplied becomes a waste, follow all applica-

ble regional, national and local laws.

#### 14. TRANSPORT INFORMATION

ADR

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Copper oxychloride, Cymoxanil)

Class : 9
Packing group : III
Labels : 9
Hazard Identification Number : 90
Tunnel restriction code : (-)
Environmentally hazardous : yes





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**UNRTDG** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Copper oxychloride, Cymoxanil)

Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 3077

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

(Copper oxychloride, Cymoxanil)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 956

aircraft)

Packing instruction (passen-

ger aircraft)

956

**IMDG-Code** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Copper oxychloride, Cymoxanil)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A. S-F

Marine pollutant : yes(Copper oxychloride, Cymoxanil)

Remarks : Stowage category A

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## **Further information**

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.

# Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture





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#### 16. OTHER INFORMATION

#### **Full text of H-Statements**

H302 Harmful if swallowed.
H313 May be harmful in contact with skin.
H332 Harmful if inhaled.

H333 May be harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Repr. : Reproductive toxicity

2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers

from the risks related to exposure to carcinogens or mutagens

at work

RU OEL : SanPiN 1.2.3685-21 Table 2.1, Table 2.8, Table 2.16 & Table

2.17 Maximum permissible concentrations (MPC) in the air of

the working area

2004/37/EC / TWA : Long term exposure limit

RU OEL / MPC-TWA : Maximum Permissible Concentration - Time Weighted Aver-

age

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - not otherwise specified; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN - United Nations.

#### **Further information**

Other information : Take notice of the directions of use on the label.

Product code: GF-4126

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.



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GE / 6N