



## TREORIS®

Version 3.1 (replaces: Version 3.0)  
Revision Date 03.03.2014

Ref. 130000036454

This Safety Data Sheet adheres to the standards and regulatory requirements of the Republic of Ireland and may not meet the regulatory requirements of other countries.

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

#### 1.1. Product identifier

Product name : TREORIS®  
Synonyms : DPX-QFA61 SC  
B12894497

#### 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 : Du Pont (UK) Limited  
Wedgwood Way  
Stevenage, Herts. SG1 4QN  
United Kingdom  
Telephone : +44 (0) 1438 734 000  
E-mail address : sds-support@che.dupont.com

#### 1.4. Emergency telephone number

Emergency telephone number : +44 (0) 8456 006 640

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3	H335: May cause respiratory irritation.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 1	H410: Very toxic to aquatic life with long lasting effects.
Harmful	R20: Harmful by inhalation.
Irritant	R38: Irritating to skin.
Harmful	R43: May cause sensitisation by skin contact.
Irritant	R43: May cause sensitisation by skin contact.
Dangerous for the environment	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 2.2. Label elements

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Exclamation  
mark



Health hazard



Environment

**Warning**

- H332 Harmful if inhaled.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- 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.,

- P201 Obtain special instructions before use.
- P261 Avoid breathing spray.
- P280 Wear protective gloves/ protective clothing.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P363 Wash contaminated clothing before reuse.
- P391 Collect spillage.
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/ container to an approved waste disposal plant.

- 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).

**2.3. Other hazards**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).  
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

not applicable

**3.2. Mixtures**

Registration number	Classification according to Directive 67/548/EEC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration



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**Chlorothalonil (CAS-No.1897-45-6) (EC-No.217-588-1)**

	Carc.Cat.3;R40 T+;R26 Xi;R37 R41 R43 N;R50/53	Carc. 2; H351 Acute Tox. 2; H330 Eye Dam. 1; H318 STOT SE 3; H335 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	22.3 %
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**Penthiopyrad (CAS-No.183675-82-3)**

	N;R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	8.9 %
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**Polyethylene oxide mono[2,4,6-tris(alpha-methylbenzyl)phenyl]ether, bisulfate, ammonium salt (CAS-No.119432-41-6)**

	Xi;R36 R52/53	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 1 - < 5 %
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The above products are REACH compliant; Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or are registered under another regulatory process (biocide uses, plant protection products), etc.

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. For specialist advice contact the National Poisons Information Service: Tel. +353 (01) 837 9964 (Healthcare Professionals) or +353 (01) 809 2166 (Public Poisons Information Line - 8am-10pm).
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.
- Skin contact : Take off all contaminated clothing immediately. Wash off with soap and water. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.
- Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.
- Ingestion : DO NOT induce vomiting unless directed to do so by a physician or poison control center. Obtain medical attention. If victim is conscious: Rinse mouth with water.

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



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Symptoms : No cases of human intoxication are known and the symptoms of experimental intoxication are not known.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray, Dry chemical, Carbon dioxide (CO<sub>2</sub>), Foam

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 combustion products: Carbon oxides Nitrogen oxides (NO<sub>x</sub>) sulphur oxides Fluorinated compounds

### 5.3. Advice for firefighters

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

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. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ventilate spill area. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. 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 product contaminates rivers and lakes or drains inform respective authorities.

### 6.3. Methods and materials for containment and cleaning up



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Methods for cleaning up : Clean-up methods - small spillage Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.  
Clean-up methods - large spillage Prevent further leakage or spillage. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Collect and contain contaminated absorbent and dike material for disposal. Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers.

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 : Use only according to our recommendations. Wear personal protective equipment. For personal protection see section 8. Use only clean equipment. Provide adequate ventilation. Do not breathe vapours or spray mist. When opening containers, avoid breathing vapours that may be emanating. 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. To avoid spills during handling keep bottle on a metal tray. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Never return unused material to storage receptacle. Avoid exceeding of the given occupational exposure limits (see section 8).

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.

### 7.2. Conditions for safe storage, including any incompatibilities

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

Advice on common storage : Keep away from: Oxidizing agents

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



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If sub-section is empty then no values are applicable.

**Components with workplace control parameters**

Type Form of exposure	Control parameters	Update	Basis	Remarks
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**Propane-1,2-diol (CAS-No. 57-55-6)**

TWA Total vapour and particulates.	470 mg/m <sup>3</sup> 150 ppm	2010	ELV (IE)	
TWA Particulate.	10 mg/m <sup>3</sup>	2010	ELV (IE)	

**8.2. Exposure controls**

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

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  
Protection index: Class 6  
Wearing time: > 480 min  
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.

Skin and body protection : Manufacturing and processing work: Full protective clothing Type 6 (EN 13034)  
Mixer and loaders must wear: Full protective clothing Type 6 (EN 13034) Rubber apron Rubber or plastic boots

Field and greenhouse application: Full protective clothing Type 3 (EN 14605)  
Rubber or plastic boots

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: Full protective clothing Type 6 (EN 13034) Rubber or plastic boots

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. To optimize the ergonomics it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier. 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



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- 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 cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Remove clothing/PPE immediately if material gets inside. For environmental protection remove and wash all contaminated protective equipment before re-use. Dispose of rinse water in accordance with local and national regulations.
- Respiratory protection : Manufacturing and processing work: Half mask with vapour filter A2 (EN 141)  
Mixer and loaders must wear: Half mask with vapour filter A2 (EN 141)  
Field and greenhouse application: Half mask with combination filter A2/P2 (EN 141)

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- Form : liquid
- Colour : light amber
- Odour : mild, solvent-like
- Odour Threshold : not determined
- pH : 4.5 - 6.5 at 10 g/l
- Flash point : > 102 °C , Method: Directive 67/548/EEC, Annex V, A.9.
- Ignition temperature : 420 °C
- Thermal decomposition : Not available for this mixture.
- Oxidizing properties : The product is not oxidizing.
- 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



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Water solubility : emulsifiable  
Partition coefficient: n-octanol/water : no data available  
Viscosity, dynamic : 100 - 500 mPa.s  
Relative vapour density : Not available for this mixture.

### 9.2. Other information

Phys.-chem./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** : To avoid thermal decomposition, do not overheat. Protect from frost, heat and sunlight.  
**10.5. Incompatible materials** : Strong oxidizing agents  
**10.6. Hazardous decomposition products** : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Fluorinated compounds

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity

LD50 / rat : 5,000 mg/kg  
Method: OECD Test Guideline 425  
(Data on the product itself) Information source: Internal study report

#### Acute inhalation toxicity

LC50 / 4 h rat : 1.18 mg/l  
Method: OECD Test Guideline 403  
(Data on the product itself) Information source: Internal study report

#### Acute dermal toxicity

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





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### Skin irritation

rabbit

Result: Irritating to skin.

Method: OECD Test Guideline 404

(Data on the product itself) Information source: Internal study report

### Eye irritation

rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

(Data on the product itself) Information source: Internal study report

### Sensitisation

guinea pig Maximisation Test (GPMT)

Result: Causes sensitisation.

Method: OECD Test Guideline 406

(Data on the product itself) Information source: Internal study report

### Repeated dose toxicity

- Chlorothalonil

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

Oral rat

Kidney effects, Gastrointestinal effects

Oral dog

Reduced body weight gain, Organ weight changes, Increased liver weight

- Penthiopyrad

Oral rat

Reduced body weight gain, Liver effects, Necrosis (tissue death), Thyroid effects, Organ weight changes, Spleen effects, altered blood chemistry, Altered behaviour

### Mutagenicity assessment

- Chlorothalonil

Not mutagenic in Ames Test. Animal testing did not show any mutagenic effects.

- Penthiopyrad

Animal testing did not show any mutagenic effects. Did not cause genetic damage in cultured bacterial cells. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.

### Carcinogenicity assessment

- Chlorothalonil

Carcinogenic Category 3 Limited evidence of a carcinogenic effect.

- Penthiopyrad



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Not classifiable as a human carcinogen. The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions. A slight increased incidence in tumors was observed in animal studies.

### Toxicity to reproduction assessment

- Chlorothalonil  
No toxicity to reproduction Animal testing did not show any effects on foetal development.
- Penthiopyrad  
No toxicity to reproduction Animal testing did not show any effects on fertility.

### Assessment teratogenicity

- Penthiopyrad  
No toxicity to reproduction The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions. Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

### STOT - single exposure

|| The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

### STOT - repeated exposure

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

### Aspiration hazard

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

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Toxicity to fish

static test / LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 0.20 mg/l  
Method: OECD Test Guideline 203  
(Data on the product itself) Information source: Internal study report

#### Toxicity to aquatic plants

EbC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae): 0.84 mg/l  
Method: OECD Test Guideline 201  
(Data on the product itself) Information source: Internal study report

#### Toxicity to aquatic invertebrates

EC50 / 48 h / *Daphnia magna* (Water flea): 0.22 mg/l  
Method: OECD Test Guideline 202  
(Data on the product itself) Information source: Internal study report

#### Toxicity to soil dwelling organisms



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LC50 / 14 d / Eisenia fetida (earthworms): > 1,000 mg/kg  
Method: OECD Test Guideline 207  
(Data on the product itself) Information source: Internal study report

### Toxicity to other organisms

LD50 / 48 h / Apis mellifera (bees): > 123.16 µg/b  
Method: OECD Test Guideline 213  
Oral (Data on the product itself) Information source: Internal study report

LD50 / 48 h / Apis mellifera (bees): > 100 µg/b  
Method: OECD Test Guideline 213  
Contact (Data on the product itself) 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

Bioaccumulation is unlikely. 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 mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). / This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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



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Contaminated packaging : Do not re-use empty containers.

### SECTION 14: Transport information

#### ADR

- 14.1. UN number: 3082  
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorothalonil, Penthiopyrad)  
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: (E)

#### IATA\_C

- 14.1. UN number: 3082  
14.2. UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Chlorothalonil, Penthiopyrad)  
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: 3082  
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorothalonil, Penthiopyrad)  
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 data available

- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
not applicable

### SECTION 15: Regulatory information

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

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 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.

#### 15.2. Chemical Safety Assessment

A Chemical Safety Assessment is not required for this/these products  
The mixture is registered as a plant protection product under Regulation (EC) No. 1107/2009.  
Refer to the label for exposure assessment information.



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### SECTION 16: Other information

#### Text of R-phrases mentioned in Section 3

R26	Very toxic by inhalation.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful 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
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 observable 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



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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
vPvB	very Persistent and very Bioaccumulative

**Further information**

Before use read DuPont's safety information., Take notice of the directions of use on the label.

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

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.