



**CIELEX®**

Version 3.0 (replaces: Version 2.0)  
Revision Date 22.02.2017

Ref. 130000042759

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 : CIELEX®  
Synonyms : B12940876  
DPX-QEK67 210 SC

**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  
Supplier : Du Pont de Nemours (France) S.A.S.  
82, rue de Wittelsheim  
F-68701 Cernay Cedex  
Telephone : +33 (0) 3 89 38 38 38  
E-mail address : sds-support@che.dupont.com

**1.4. 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**

Reproductive toxicity, Category 2 H361d: Suspected of damaging the unborn child.  
Chronic aquatic toxicity, H410: Very toxic to aquatic life with long lasting effects.

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Category 1

**2.2. Label elements**



**Warning**

H361d Suspected of damaging the unborn child.  
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.  
P281 Use personal protective equipment as required.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P391 Collect spillage.  
P405 Store locked up.  
P501 Dispose of contents to an approved incineration plant in accordance with local, regional and national legislations.  
P501 Dispose of container to a waste disposal plant in accordance with local, regional and national legislations.

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 and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

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

**3.1. Substances**

Not applicable

**3.2. Mixtures**

Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
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**Penthiopyrad (CAS-No.183675-82-3)  
(M-Factor : 1[Acute] 1[Chronic])**

	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	14,9 %
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**Cyproconazole (CAS-No.94361-06-5)  
(M-Factor : 10[Acute] 1[Chronic])**

	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 Repr. 2; H361d Aquatic Acute 1; H400 Aquatic Chronic 1; H410	5,9 %
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**Polyethylene oxide mono[2,4,6-tris(alpha-methylbenzyl)phenyl]ether, bisulfate, ammonium salt (CAS-No.119432-41-6)**

	Aquatic Chronic 3; H412	>= 1 - < 5 %
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The above products are compliant to REACH registration obligations; 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 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 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 : 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: contains petroleum distillates and/or aromatic solvents. If victim is conscious: Rinse mouth with water.

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

- Symptoms : No cases of human intoxication are known and the symptoms of experimental



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intoxication are not known.

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

Treatment : Treat symptomatically. There is no specific antidote available.

**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 decomposition products formed under fire conditions. Carbon dioxide (CO<sub>2</sub>) Nitrogen oxides (NO<sub>x</sub>)

**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. 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



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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 Soak up with inert absorbent material. Sweep up or vacuum up spillage and collect in suitable container 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). Large spills should be collected mechanically (remove by pumping) for disposal. Collect leaking liquid in sealable (metal/plastic) containers. Collect and contain contaminated absorbent and dike material for disposal.

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 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 a place accessible by authorized persons only. Store in original container. Keep in properly labelled containers. Keep away from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

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



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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**

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

**8.2. Exposure controls**

Engineering measures : Ensure adequate ventilation, especially in confined areas. Use sufficient 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  
Protection index: Class 6  
Wearing time: 8 h  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC 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. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves must be inspected prior to use. 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. Before removing gloves clean them with soap and water.

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 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: Low application: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).



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Backpack / knapsack sprayer: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) 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 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 3 (EN 374) and nitrile rubber boots (EN 13832-3 / EN ISO 20345).

To optimize the ergonomoy 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.

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.

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 cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks and immediately after handling the product. 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 A1 (EN 141)  
  
Mixer and loaders must wear: Half mask with vapour filter A1 (EN 141)  
  
Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory protective equipment normally required.  
  
Tractor / sprayer without hood: Low application: Half mask with a particle filter P2 (EN 143)  
  
Backpack / knapsack sprayer: Half mask with a particle filter P2 (EN 143)



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Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.

**SECTION 9: Physical and chemical properties**

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

Form	: liquid
Colour	: off-white
Odour	: slight
Odour Threshold	: not determined
pH	: 5,90
Melting point/range	: Not applicable
Boiling point/boiling range	: 100 °C
Flash point	: > 103 °C
Thermal decomposition	: Not available for this mixture.
Auto-ignition temperature	: ca.320 °C
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.
Relative density	: 0,9995
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, dynamic	: Not available for this mixture.
Relative vapour density	: Not available for this mixture.
Evaporation rate	: Not available for this mixture.





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**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** : Exposure to sunlight. Decomposes on heating.

**10.5. Incompatible materials** : Strong oxidizing agents

**10.6. Hazardous decomposition products** : Sulphur oxides  
Hydrogen fluoride

**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 : > 4,21 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

Skin irritation

Rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404



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Exposure time 72 h  
(Data on the product itself) Information source: Internal study report

Eye irritation

Rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405  
Exposure time 72 h  
(Data on the product itself) Information source: Internal study report

Sensitisation

Mouse Local lymph node test  
Result: Animal test did not cause sensitization by skin contact.  
Method: OECD Test Guideline 429  
(Data on the product itself) Information source: Internal study report

Repeated dose toxicity

- Penthiopyrad  
Oral multiple species  
The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions., Reduced body weight gain, Liver effects, Thyroid effects, Spleen effects, Gallbladder effects, Liver enlargement, Immune system effects, altered blood chemistry, Organ weight changes, Increased liver weight
- Cyproconazole  
Ingestion Rat  
Exposure time: 90 d  
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Liver effects, Adverse body weight effects  
  
Ingestion multiple species  
No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Liver effects

Mutagenicity assessment

- 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 one laboratory test but was not observed in others.
- Cyproconazole  
Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment

- 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. Liver Thyroid

- Cyproconazole  
Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic.

### Toxicity to reproduction assessment

- Penthiopyrad  
No toxicity to reproduction
- Cyproconazole  
Animal testing showed no reproductive toxicity. No effects on or via lactation

### 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.
- Cyproconazole  
Ingestion of excessive amounts by pregnant animals resulted in maternal and foetal toxicity.

### STOT - single exposure

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

### 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): 3,5 mg/l  
Method: OECD Test Guideline 203  
(Data on the product itself) Information source: Internal study report

#### Toxicity to aquatic plants



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ErC50 / 72 h / Pseudokirchneriella subcapitata (microalgae): > 10 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): 6,3 mg/l  
Method: OECD Test Guideline 202  
(Data on the product itself) Information source: Internal study report

Toxicity to soil dwelling organisms

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): 0,12357 mg/kg  
Method: OECD Test Guideline 213  
(Data on the product itself) Information source: Internal study report

LD50 / 48 h / Apis mellifera (bees): > 100 mg/kg  
Method: OECD Test Guideline 214  
(Data on the product itself) Information source: Internal study report

Chronic toxicity to fish

- Penthopyrad  
Early Life-Stage / NOEC / 33 d / Pimephales promelas (fathead minnow): 51 µg/l  
Method: OECD Test Guideline 210  
Information source: Data provided by an external source.
- Cyproconazole  
NOEC / 357 d / Pimephales promelas (fathead minnow): 0,125 mg/l  
Information source: Data provided by an external source.

Chronic toxicity to aquatic Invertebrates

- Penthopyrad  
flow-through test / NOEC / 21 d / Daphnia magna (Water flea): 0,47 mg/l  
Method: OECD Test Guideline 211  
Information source: Data provided by an external source.
- Cyproconazole  
NOEC / 21 d / Daphnia magna (Water flea): 0,019 mg/l  
Information source: Data provided by an external source.

### 12.2. Persistence and degradability

Biodegradability



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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 the product has a low potential of mobility in soil.

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

PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). / This mixture contains no substance considered to be very persistent and 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.

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. (Penthiopyrad, Cyproconazole)
- 14.3. Transport hazard class(es): 9
- 14.4. Packing group: III
- 14.5. Environmental hazards: Environmentally hazardous
- 14.6. Special precautions for user:  
Tunnel restriction code: (E)



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**IATA\_C**

- 14.1. UN number: 3082
- 14.2. UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Penthiopyrad, Cyproconazole)
- 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. (Penthiopyrad, Cyproconazole)
- 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**

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.

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information**

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

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.



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H361d	Suspected of damaging the unborn child.
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 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., Before use read DuPont's safety information.

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



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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.