



## TANOS®

Version 2.0

Revision Date 19.11.2012

Ref. 130000000560

This SDS adheres to the standards and regulatory requirements of the European Community 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 : TANOS®  
Synonyms : B10480592  
DPX-KP481 WG

#### 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 : +41-22-717.5111  
Telefax : +41-22-717.5109  
E-mail address : sds-support@che.dupont.com

#### 1.4. Emergency telephone number

Emergency telephone number : +44-(0)8456-006.640  
Supplier : Du Pont de Nemours (France) S.A.S.  
82, rue de Wittelsheim  
F-68701 Cernay Cedex  
Telephone : +33 3 89 38 38 38

### SECTION 2: Hazards identification

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

Harmful	R22: Harmful if swallowed.
Sensitising	R43: May cause sensitization by skin contact.
Harmful	R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.
Dangerous for the environment	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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**2.2. Label elements**



Harmful



Dangerous for the environment

- R22 Harmful if swallowed.
- R43 May cause sensitization by skin contact.
- R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Special labelling of certain substances and mixtures To avoid risks to man and the environment, comply with the instructions for use.

Sensitising components Contains: Cymoxanil / May produce an allergic reaction.

- S 2 Keep out of the reach of children.
- S13 Keep away from food, drink and animal feedingstuffs.
- S20/21 When using do not eat, drink or smoke.
- S24 Avoid contact with skin.
- S35 This material and its container must be disposed of in a safe way.
- S37 Wear suitable gloves.
- S46 If swallowed, seek medical advice immediately and show this container or label.
- S57 Use appropriate container to avoid environmental contamination.
- 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 Directive 67/548/EEC	Classification according Regulation 1272/2008 (CLP)	Concentration



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**Famoxadone (CAS-No.131807-57-3)**

	Xn;R48/22 N;R50/53	STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	25 %
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**Cymoxanil (CAS-No.57966-95-7) (EC-No.261-043-0)**

	Xn;R22 R43 N;R50/53	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	25 %
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**Lignosulfonic acid, sodium salt, sulfomethylated (CAS-No.68512-34-5)**

	Xi;R36	Eye Irrit. 2; H319	>= 20 - < 25 %
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**Sodium Methylnaphthalenesulfonate (CAS-No.26264-58-4) (EC-No.247-564-6)**

	Xi;R36/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319	5 - < 10 %
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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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**Sodium dihydrogenorthophosphate (CAS-No.7558-80-7) (EC-No.231-449-2)**

	Xi;R36/37/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	1 - < 5 %
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**Sodium dioctyl sulfosuccinate (CAS-No.577-11-7) (EC-No.209-406-4)**

	Xn;R22 Xi;R37/38 Xi;R41	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	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.
- Inhalation : Move to fresh air. Consult a physician after significant exposure. Artificial



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- 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 :
- Skin contact may provoke the following symptoms: Erythema, Dermatitis, Sensitisation, Irritation
  - Ingestion may provoke the following symptoms: Nausea, Vomiting, Diarrhoea, Gastrointestinal discomfort
  - Inhalation may provoke the following symptoms: Asthmatic appearance, Irritation, sensitising effects
  - Central nervous system depression, Headache, Lack of coordination, Disorientation, More severe effects if alcohol is consumed.

### 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, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

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



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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. 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).

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. 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.



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

Requirements for storage areas and containers : Keep away from food, drink and animal feedingstuffs. 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.

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

Storage temperature : > 0 - < 30 °C

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. Provide for appropriate exhaust ventilation and dust collection at machinery. Contains no substances with occupational exposure limit values.

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection : Material: Nitrile rubber  
Glove thickness: 0,4 - 0,7 mm  
Glove length: Long sleeve gloves  
Protection index: Class 6  
Wearing time: > 480 min  
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. Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Gauntlets of 35 cm long or longer shall be worn over the combination sleeve. Before removing gloves clean them with soap and water.

Skin and body protection : Manufacturing and processing work: Full protective clothing Type 5 (EN 13982-2) Mixer and loaders must wear: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Rubber apron Rubber or plastic boots Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required. Tractor / sprayer without hood: Full protective clothing Type 4 (EN



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14605) Rubber or plastic boots Backpack / knapsack sprayer: Full protective clothing Type 4 (EN 14605) Spray application - indoor: Full protective clothing Type 4 (EN 14605) Rubber or plastic boots 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 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 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.

Respiratory protection : Manufacturing and processing work: Half mask with a particle filter FFP1 (EN149) Mixer and loaders must wear: Half mask with a particle filter FFP1 (EN149) Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory protective equipment normally required. Tractor / sprayer without hood: Half mask with a particle filter P2 (EN 143). Backpack / knapsack sprayer: Half mask with a particle filter P2 (EN 143). Spray application - indoor: Half mask with combination filter A1/P2 (EN 141) 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 : solid  
Colour : brown  
Odour : sweet



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Odour Threshold	: not determined
pH	: ca. 6 at 10 g/l ( 20 °C)
Melting point	: no data available
Flash point	: not applicable
Flammability (solid, gas)	: Does not sustain combustion.
Ignition temperature	: > 360 °C
Thermal decomposition	: Not available for this mixture.
Auto-ignition temperature	: Not available for this mixture.
Oxidizing properties	: Oxidizing properties (solids)
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	: Not available for this mixture.
Bulk density	: 600 kg/m <sup>3</sup>
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: not applicable
Viscosity, kinematic	: not applicable
Evaporation rate	: Not available for this mixture.
<b>9.2. Other information</b>	
Phys.-chem./other information	: No other data to be specially mentioned.

**SECTION 10: Stability and reactivity**

- |   |  |
|---|--|
| <b>10.1. Reactivity</b>                         | : No hazards to be specially mentioned.  |
| <b>10.2. Chemical stability</b>                 | : The product is chemically stable under recommended conditions of storage, use and temperature.   |
| <b>10.3. Possibility of hazardous reactions</b> | : No dangerous reaction known under conditions of normal use. Polymerization will not occur. No decomposition if stored and applied as directed. |





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- 10.4. Conditions to avoid** : 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** : Hydrogen cyanide (hydrocyanic acid)

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute oral toxicity

LD50 / rat male : 1 732 mg/kg  
Method: OECD Test Guideline 401  
(Data on the product itself) Information source: Internal study report

LD50 / rat female : 566 mg/kg  
Method: OECD Test Guideline 401  
(Data on the product itself) Information source: Internal study report

Acute inhalation toxicity

LC50 / 4 h rat : > 5,1 mg/l  
Method: OECD Test Guideline 403  
(Data on the product itself) Information source: Internal study report

Acute dermal toxicity

LD50 / rabbit : > 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  
(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 Modified Buehler Test  
Result: Causes sensitization.  
Method: OECD Test Guideline 406  
(Data on the product itself) Information source: Internal study report



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Repeated dose toxicity

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

Oral - feed dog  
eye effects

Oral - feed rat  
Reduced body weight gain, Organ weight changes, Increased liver enzyme levels in serum, Liver effects,  
Red blood cell destruction causing abnormal decrease in number of red blood cells (anaemia)

Dermal rat  
Increased liver weight, Increased liver enzyme levels in serum

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

Mutagenicity assessment

- Famoxadone  
Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
- Cymoxanil  
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment

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

Toxicity to reproduction assessment

- Famoxadone  
No toxicity to reproduction
- Cymoxanil  
No toxicity to reproduction

Assessment teratogenicity

- Famoxadone  
Animal testing showed no developmental toxicity.
- Cymoxanil



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Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Toxicity to fish

flow-through test / LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 0,0287 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): 4,04 mg/l  
Method: Directive 67/548/EEC, Annex V, C.3.  
The toxicological data has been taken from products of similar composition. Information source: Internal study report

##### Toxicity to aquatic invertebrates

flow-through test / EC50 / 48 h / *Daphnia magna* (Water flea): 0,055 mg/l  
Method: OECD Test Guideline 202  
(Data on the product itself) Information source: Internal study report

##### Chronic toxicity to fish

- Famoxadone  
NOEC / 90 d / *Oncorhynchus mykiss* (rainbow trout): 0,0014 mg/l
- Cymoxanil  
NOEC / 21 d / *Oncorhynchus mykiss* (rainbow trout): 0,22 mg/l

##### Chronic toxicity to aquatic Invertebrates

- Famoxadone  
NOEC / 21 d / *Daphnia magna* (Water flea): 0,0037 mg/l
- Cymoxanil  
EC50 / 21 d / *Daphnia magna* (Water flea): 0,73 mg/l

#### 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.



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**12.4. Mobility in soil**

Mobility in soil

The product is not expected to be mobile in soils.

**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.

Contaminated packaging : Do not re-use empty containers.

European Waste Catalogue number : 020108: agrochemical waste containing dangerous substances

**SECTION 14: Transport information**

**ADR**

- 14.1. UN number: 3077
- 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Famoxadone, 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: (E)

**IATA\_C**

- 14.1. UN number: 3077
- 14.2. UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Famoxadone, 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



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### IMDG

- 14.1. UN number: 3077  
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Famoxadone, Cymoxanil, Famoxadone, 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 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 Directive 1999/45/EC. 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. 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.

### 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.

## SECTION 16: Other information

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

- R22 Harmful if swallowed.  
R36 Irritating to eyes.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R36/38 Irritating to eyes and skin.  
R37/38 Irritating to respiratory system and skin.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitization by skin contact.  
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 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.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.



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H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Other information                      professional use

**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.