



## VAREON®

Version 6.0

Revision Date 23.08.2013

Ref. 130000044050

This Safety Data Sheet 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 : VAREON®  
Synonyms : DPX-N6F84 520EC  
B12815091

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

Use of the Substance/Mixture : Fungicide

#### 1.3. Details of the supplier of the safety data sheet

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

Telephone : +41 (0) 22 717 51 11

Telefax : +41 (0) 22 717 51 09

E-mail address : sds-support@che.dupont.com

#### 1.4. Emergency telephone number

Emergency telephone number : +44 (0) 870 820 0418

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

### SECTION 2: Hazards identification

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

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Chronic aquatic toxicity, Category 1	H410: Very toxic to aquatic life with long lasting effects.
Toxic to Reproduction Category 3	R63: Possible risk of harm to the unborn child.
Carcinogenic Category 3	R40: Limited evidence of a carcinogenic effect.
Sensitising	R43: May cause sensitisation by skin contact.

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Dangerous for the  
environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in  
the aquatic environment.

### 2.2. Label elements



#### Warning

H317      May cause an allergic skin reaction.  
H351      Suspected of causing cancer.  
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.  
P261      Avoid breathing spray.  
P280      Wear protective gloves/ protective clothing/ eye protection/ face protection.  
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.  
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.

SP1      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



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Registration number	Classification according to Directive 67/548/EEC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration
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**Prochloraz (CAS-No.67747-09-5) (EC-No.266-994-5)**

	Xn;R22 N;R50/53	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	32 %
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**Tebuconazole (CAS-No.107534-96-3) (EC-No.403-640-2)**

	Repr.Cat.3;R63 Xn;R22 N;R51/53	Repr. 2; H361 Acute Tox. 4; H302 Aquatic Chronic 2; H411	16 %
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**Proquinazid (CAS-No.189278-12-4)**

	Carc.Cat.3;R40 N;R50/53	Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	4 %
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**2-Ethylhexyl (S)-2-hydroxy propionate (CAS-No.186817-80-1)**

	Xi;R36/38 Xi;R43	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 25 - < 30 %
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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 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.



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

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, 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 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. 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



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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 of the given occupational exposure limits (see section 8).

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. 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 : 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 : < 50 °C

Other data : Stable under recommended storage conditions.

### 7.3. Specific end use(s)

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



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### 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. 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  
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) Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required. Tractor / sprayer without hood: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Backpack / knapsack sprayer: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Mechanical automatized spray application in closed tunnel: No personal body protection normally required during the application. However, gloves and a long sleeved shirt shall be worn when handling the treated plants after the application. To optimize the ergonomoy 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 : 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.
- 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)



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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: Half mask with a particle filter P1 (EN 143). 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	: viscous liquid
Colour	: yellow
Odour	: sweet, solvent-like
pH	: 7,0 at 10 g/l ( 25 °C)
Boiling point/boiling range	: Not available for this mixture.
Flash point	: 123 °C
Flammability (solid, gas)	: Does not sustain combustion.
Thermal decomposition	: Not available for this mixture.
Auto-ignition temperature	: 290 °C , Auto-flammability
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	: 1,1215 g/cm <sup>3</sup> at 20 °C
Relative density	: Not available for this mixture.
Water solubility	: emulsifiable
Partition coefficient: n-octanol/water	: not applicable
Viscosity, dynamic	: 521 mPa.s at 20 °C
Viscosity, kinematic	: 46,5 mm <sup>2</sup> /s at 20 °C
Relative vapour density	: Not available for this mixture.



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Evaporation rate : 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** : Exposure to sunlight. Direct sources of heat. Decomposes on heating. Protect from frost.

**10.5. Incompatible materials** : Incompatible with oxidizing agents.  
Strong acids and strong bases

**10.6. Hazardous decomposition products** : Chlorine

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity

LD50 / rat : > 2 000 mg/kg

Method: OECD Test Guideline 425

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

#### Acute inhalation toxicity

LC50 / 4 h rat : > 5,06 mg/l

Method: OECD Test Guideline 403

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

#### Acute dermal toxicity

LD50 / rat : > 2 000 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





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rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

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

### Sensitisation

mouse Local lymph node test

Result: Causes sensitisation.

Method: OECD Test Guideline 406

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

### Repeated dose toxicity

- Proquinazid

Oral - feed rat

Reduced body weight gain, Liver effects, Kidney effects, Thyroid effects, Abnormal serum enzyme levels, Organ weight changes, altered hematology

### Mutagenicity assessment

- Prochloraz

Did not show mutagenic effects in animal experiments.

- Tebuconazole

Did not show mutagenic effects in animal experiments.

- Proquinazid

Did not show mutagenic effects in animal experiments. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### Carcinogenicity assessment

- Prochloraz

Did not show carcinogenic effects in animal experiments.

- Tebuconazole

Did not show carcinogenic effects in animal experiments.

- Proquinazid

Carcinogenic Category 3 Limited evidence of a carcinogenic effect. Animal experiments showed a statistically significant number of tumours.

### Toxicity to reproduction assessment

- Prochloraz

Animal testing did not show any effects on fertility.

- Tebuconazole

Toxic to Reproduction Category 3 Possible risk of harm to the unborn child.

- Proquinazid

Animal testing did not show any effects on fertility.



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### Assessment teratogenicity

- Prochloraz  
Did not show teratogenic effects in animal experiments.
- Proquinazid  
Did not show teratogenic effects in animal experiments.

### STOT - single exposure

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

### STOT - repeated exposure

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

### Aspiration hazard

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

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Toxicity to fish

semi-static test / LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 2,842 mg/l  
Method: OECD Test Guideline 203  
(Data on the product itself) Information source: Internal study report

#### Toxicity to aquatic plants

ErC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae): 3,03 mg/l  
Method: OECD Test Guideline 201  
(Data on the product itself) Information source: Internal study report

EbC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae): 1,42 mg/l  
Method: OECD Test Guideline 201  
(Data on the product itself) Information source: Internal study report

EyC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae): 1,37 mg/l  
Method: OECD Test Guideline 201  
(Data on the product itself) Information source: Internal study report

#### Toxicity to aquatic invertebrates

semi-static test / EC50 / 48 h / *Daphnia magna* (Water flea): 3,449 mg/l  
Method: OECD Test Guideline 202  
(Data on the product itself) Information source: Internal study report

#### Chronic toxicity to fish

- Proquinazid  
Early Life-Stage / NOEC / *Oncorhynchus mykiss* (rainbow trout): 0,0030 mg/l



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Chronic toxicity to aquatic Invertebrates

- Proquinazid  
NOEC / Daphnia magna (Water flea): 0,0018 mg/l

### 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

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: 3082
- 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,



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- 14.3. Transport hazard class(es): N.O.S. (Tebuconazole, Prochloraz, Proquinazid)  
9  
14.4. Packing group: III  
14.5. Environmental hazards: Environmentally hazardous  
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.  
(Tebuconazole, Prochloraz, Proquinazid)  
14.3. Transport hazard class(es): 9  
14.4. Packing group: III  
14.5. Environmental hazards : Environmentally hazardous  
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. (Tebuconazole, Prochloraz, Proquinazid)  
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 Dir 92/85/EEC on the safety and health at work of pregnant workers. 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.

## SECTION 16: Other information

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

R22 Harmful if swallowed.  
R36/38 Irritating to eyes and skin.



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R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
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.
H411	Toxic to aquatic life with long lasting effects.

Other information professional use

### Abbreviations and acronyms

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



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vPvB

very Persistent and very Bioaccumulative

**Further 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.