



## STEWARD®

Version 5.0 (replaces: Version 4.0)  
Revision Date 28.04.2014

Ref. 130000000325

This Safety Data Sheet adheres to the standards and regulatory requirements of Great Britain and may not meet the regulatory requirements in other countries.

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

#### 1.1. Product identifier

Product name : STEWARD®  
Synonyms : DPX-MP062 30 WG

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

Use of the Substance/Mixture : Insecticide

#### 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	H302: Harmful if swallowed.
Specific target organ toxicity - single exposure, Category 2	H371: May cause damage to organs. (Nervous system)
Chronic aquatic toxicity, Category 1	H410: Very toxic to aquatic life with long lasting effects.
Harmful	R22: Harmful if swallowed.
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**

H302 Harmful if swallowed.  
H371 May cause damage to organs. (Nervous system)  
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.,  
Contains: Indoxacarb / EUH208: May produce an allergic reaction.,

P260 Do not breathe vapours.  
P260 Do not breathe spray.  
P264 Wash hands and face thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician.  
P391 Collect spillage.  
P501 Dispose of contents/ container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Special labelling of certain substances and mixtures Restricted to professional users.

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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**Indoxacarb (CAS-No.173584-44-6)**

	T;R25 R48/25 Xi;R43 N;R50/53 Xn;R20	Acute Tox. 3; H301 Acute Tox. 4; H332 Skin Sens. 1B; H317 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	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.
- ||| : For specialist advice physicians should contact the National Poisons Information Service: Tel. 111 for England and Wales and Tel. 08454 24 24 24 for Scotland.
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician.
- 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 : 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 (CO2)



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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 self-contained breathing apparatus and protective suit.

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. 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 Soak up with inert absorbent material. 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). 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.



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### 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. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. 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. Avoid dust formation in confined areas. During processing, dust may form explosive mixture in air.

### 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 : No special restrictions on storage with other products.

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: 0.3 mm  
Glove length: Standard glove type.  
Protection index: Class 6  
Wearing time: > 480 min



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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 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 5 (EN 13982-2)
  - Mixer and loaders must wear: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / 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: 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).
  - Spray application - indoor: Motorized greenhouse sprayer: 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.
  - When exceptional circumstances would 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 2 (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.



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- 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. 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. Wash thoroughly and put on clean clothing. Dispose of rinse water in accordance with local and national regulations.
- 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 FFP1 (EN149)
- Backpack / knapsack sprayer: Half mask with a particle filter P1 (EN 143).
- Spray application - indoor: Motorized greenhouse sprayer: 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 : dry, free flowing granules
- Colour : dark brown
- Odour : mild, woody
- Odour Threshold : not determined
- pH : 7.5 at 10 g/l ( 20 °C)
- Melting point/range : Not available for this mixture.
- Flash point : not applicable
- Flammability (solid, gas) : Does not sustain combustion., Method: Flammability (solids)
- Thermal decomposition : Not available for this mixture.
- Auto-ignition temperature : not auto-flammable
- Oxidizing properties : The product is not oxidizing. Method: Directive 67/548/EEC, Annex V, A.17.
- Explosive properties : Not explosive



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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 : 0.8

Bulk density : 800 kg/m<sup>3</sup>

Water solubility : not determined

Partition coefficient: n-octanol/water : not applicable

Viscosity, kinematic : not determined

Relative vapour density : Not available for this mixture.

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** : 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 fluoride  
Hydrogen chloride gas

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute oral toxicity

LD50 / rat male : 1,876 mg/kg

Method: OECD Test Guideline 401

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





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LD50 / rat female : 687 mg/kg  
Method: OECD Test Guideline 401  
Information source: Internal study report (Data on the product itself)

### Acute inhalation toxicity

LC50 / 4 h rat : > 5.6 mg/l  
Method: OECD Test Guideline 403  
Information source: Internal study report (Data on the product itself)

### Acute dermal toxicity

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

### Skin irritation

rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404  
Information source: Internal study report (Data on the product itself)

### Eye irritation

rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405  
Information source: Internal study report (Data on the product itself)

### Sensitisation

guinea pig Maximisation Test (GPMT)  
Result: Animal test did not cause sensitization by skin contact.  
Method: OECD Test Guideline 406  
Information source: Internal study report (Data on the product itself)

### Repeated dose toxicity

Oral - feed rat  
Exposure time: 90 d  
Method: OECD Test Guideline 408  
No significant toxicological effects in 90 day studies were found below the recommended guidance values for classification., Information source: Internal study report

### Mutagenicity assessment

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

### Carcinogenicity assessment

- Indoxacarb  
Animal testing did not show any carcinogenic effects.



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### Toxicity to reproduction assessment

- Indoxacarb  
Animal testing did not show any effects on fertility. No toxicity to reproduction

### STOT - single exposure

- || Central nervous system  
The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.

### 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

LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 1.8 mg/l  
Method: OECD Test Guideline 203  
Information source: Internal study report (Data on the product itself)

#### Toxicity to aquatic plants

EbC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae): > 1.2 mg/l  
Method: OECD Test Guideline 201  
Information source: Internal study report (Data on the product itself)

#### Toxicity to aquatic invertebrates

EC50 / 48 h / *Daphnia magna* (Water flea): 1.7 mg/l  
Method: OECD Test Guideline 202  
Information source: Internal study report (Data on the product itself)

#### Toxicity to other organisms

LD50 / *Colinus virginianus* (Bobwhite quail): 508 mg/kg  
Method: US EPA Test Guideline OPP 71-1  
Information source: Internal study report (Data on the product itself)

LD50 / 48 h / *Apis mellifera* (bees): 0.00160 mg/kg  
Method: OEPP/EPPO Test Guideline 170  
Oral Information given is based on data obtained from similar product.

LD50 / 48 h / *Apis mellifera* (bees): 0.0013 mg/kg  
Method: OEPP/EPPO Test Guideline 170  
Contact Information given is based on data obtained from similar product.

#### Chronic toxicity to fish



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- Indoxacarb  
Early Life-Stage / NOEC / 90 d / Oncorhynchus mykiss (rainbow trout): 0.15 mg/l

Chronic toxicity to aquatic Invertebrates

- Indoxacarb  
NOEC / 21 d / Daphnia magna (Water flea): 0.9 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. Information refers to the main component.

### 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. The product should not be allowed to enter drains, water courses or the soil.
- Contaminated packaging : Do not re-use empty containers.

## SECTION 14: Transport information

### ADR

- 14.1. UN number: 3077  
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,



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- 14.3. Transport hazard class(es): N.O.S. (Indoxacarb)  
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. (Indoxacarb)  
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: 3077  
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S. (Indoxacarb)  
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 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 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

- R20 Harmful by inhalation.  
R25 Toxic if swallowed.  
R43 May cause sensitisation by skin contact.



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R48/25 Toxic: 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.

H301 Toxic if swallowed.  
H317 May cause an allergic skin reaction.  
H332 Harmful if inhaled.  
H372 Causes 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

### 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  
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.