

**KOCIDE® 2000**

Version 4.2  
(replaces: Version 4.1)  
Revision Date 27.02.2017

Ref. 130000000296

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 : KOCIDE® 2000  
Synonyms : B11486799  
DPX-GFJ52 35WG

**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)-870-8200418 (CHEMTREC)  
: Poison Centres may only possess information required for products in  
accordance with Regulation (EC) No 1272/2008 and national legislation.

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****Classification according to Regulation (EU) 1272/2008 (CLP)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.

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Eye irritation, Category 2  
Chronic aquatic toxicity,  
Category 1

H319: Causes serious eye irritation.  
H410: Very toxic to aquatic life with long lasting effects.

**2.2. Label elements****Labelling according to Regulation (EU) 1272/2008 (CLP)**

## Warning

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

P261 Avoid breathing mist.  
P261 Avoid breathing spray.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
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.

**Labelling according to EU Directives 67/548/EEC or 1999/45/EC**

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).

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**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**

Classification according to Directive 67/548/EEC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration
<b>Copper dihydroxide (CAS-No.20427-59-2) (EC-No.243-815-9)</b>		
T;R23 Xn;R22 Xi;R41 N;R50/53	Acute Tox. 4; H302 Acute Tox. 2; H330 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	53,8 %
<b>Tetrasodium pyrophosphate (CAS-No.7722-88-5) (EC-No.231-767-1)</b>		
Xn;R22 Xi;R41	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 5 - < 10 %

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 with warm water and soap. 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. Get medical attention immediately.
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



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water.

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

Risks : Probable mucosal damage may contraindicate the use of gastric lavage.

Symptoms : Skin contact may provoke the following symptoms:, Irritation

: Eye contact may provoke the following symptoms:, Irritation

: Inhalation may provoke the following symptoms:, Liver disorders, Kidney disorders

: Ingestion may provoke the following symptoms:, Yellow staining of skin, Vomiting, Diarrhoea, Abdominal pain, Convulsions

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray, Dry chemical, Foam, 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.

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions : Evacuate personnel to safe areas. Control access to area. Avoid dust formation. Avoid breathing dust. Avoid contact with the skin and the eyes. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.

Use personal protective equipment.

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

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Dust explosion class : St1

**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.

Storage temperature : < 35 °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. 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  
 Glove length: Gauntlets  
 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. Before removing gloves clean them with soap and water. 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. Gloves must be inspected prior to use.

Skin and body protection : Manufacturing and processing work: Full protective clothing Type 5 (EN 13982-

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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).

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 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. 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. 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.

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Respiratory protection	: Manufacturing and processing work: Half mask with a particle filter FFP2 (EN149)
	Mixer and loaders must wear: Half mask with a particle filter FFP2 (EN149)
	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 FFP2 (EN149)
	Middle-height application: Half mask with a particle filter P2 (EN 143)
	Backpack / knapsack sprayer: Low application: Half mask with a particle filter FFP2 (EN149)
	Middle-height application: Half mask with a particle filter P2 (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	: solid, granular
Colour	: blue
Odour	: characteristic copper odor
Odour Threshold	: not determined
pH	: 9,1 at 10 g/l
Melting point/range	: Not available for this mixture.
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Flammability (solid, gas)	: Does not sustain combustion.
Thermal decomposition	: Not available for this mixture.
Auto-ignition temperature	: 340 °C
Oxidizing properties	: The product is not oxidizing.
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.

Density : 1,15 g/cm<sup>3</sup>

Bulk density : 880 kg/m<sup>3</sup>

Water solubility : dispersible

Partition coefficient: n-octanol/water : Not applicable

Viscosity, kinematic : Not applicable

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** : Temperature : > 140 °C 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** : Copper oxides

**SECTION 11: Toxicological information**

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**11.1. Information on toxicological effects**

## Acute oral toxicity

LD50 / Rat : 1 346 mg/kg

Method: OECD Test Guideline 401

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

## Acute inhalation toxicity

LC50 / 4 h Rat : 1,311 mg/l

Method: OECD Test Guideline 403

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

## Acute dermal toxicity

LD50 / Rabbit : &gt; 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: Irritating to eyes.

Method: OECD Test Guideline 405

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

## Sensitisation

Guinea pig Maximisation Test

Result: Animal test did not cause sensitization by skin contact.

Method: OECD Test Guideline 406

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

## Mutagenicity assessment

## • Copper dihydroxide

Weight of evidence does not support classification as a germ cell mutagen. Information given is based on data obtained from similar substances.

## Carcinogenicity assessment

## • Copper dihydroxide

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Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects. Information given is based on data obtained from similar substances.

## Toxicity to reproduction assessment

## • Copper dihydroxide

No toxicity to reproduction Animal testing did not show any effects on fertility. Information given is based on data obtained from similar substances.

## Assessment teratogenicity

## • Copper dihydroxide

The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions. Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

## STOT - single exposure

|| The substance or mixture is 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

semi-static test / LC50 / 96 h / *Oncorhynchus mykiss* (rainbow trout): 4,79 mg/l

Method: OECD Test Guideline 203

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

## Toxicity to aquatic plants

ErC50 / 72 h / *Desmodesmus subspicatus* (green algae): 18,03 mg/l

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

## Toxicity to aquatic invertebrates

static test / EC50 / 48 h / *Daphnia* (water flea): 1,61 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

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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): &gt; 0,100 mg/kg

Method: OEPP/EPPO Test Guideline 170

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

LD50 / Coturnix japonica (Japanese quail): 722,22 mg/kg

Method: US EPA Test Guideline OPP 71-1

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

LD50 / 48 h / Apis mellifera (bees): 0,00815 mg/kg

Method: OEPP/EPPO Test Guideline 170

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

## Chronic toxicity to fish

- Copper dihydroxide

NOEC / 90 d / : 0,0017 mg/l

Method: OECD Test Guideline 204

Information source: Internal study report

## Chronic toxicity to aquatic Invertebrates

NOEC / 21 d / Daphnia magna (Water flea): 0,0025 mg/l

Method: OECD Test Guideline 211

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

**12.2. Persistence and degradability**

## Biodegradability

Not readily biodegradable. Estimation based on data obtained on active ingredient.

**12.3. Bioaccumulative potential**

## Bioaccumulation

Does not bioaccumulate. Estimation based on data obtained on active ingredient.

**12.4. Mobility in soil**

## Mobility in soil

Under actual use conditions, there is no reasonable expectation of any movement of the product from the top soil layer.

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

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**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. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. 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: 3077  
 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper hydroxide)  
 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)

**IATA\_C**

14.1. UN number: 3077  
 14.2. UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Copper hydroxide)  
 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. (Copper hydroxide)  
 14.3. Transport hazard class(es): 9  
 14.4. Packing group: III

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- 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.

**SECTION 16: Other information****Text of R-phrases mentioned in Section 3**

R22 Harmful if swallowed.  
 R23 Toxic by inhalation.  
 R41 Risk of serious damage to eyes.  
 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.  
 H318 Causes serious eye damage.  
 H330 Fatal if inhaled.  
 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

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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**

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.