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# RATIO® SX

Version 5.0 (replaces: Version 4.0)

Revision Date 11.07.2014 Ref. 130000015716

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 : RATIO® SX

Synonyms : DPX-JMQ48 50SG

B11984502

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

Use of the Substance/Mixture Herbicide

#### 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 aquatic toxicity, H400: Very toxic to aquatic life.

Category 1

Chronic aquatic toxicity, H410: Very toxic to aquatic life with long lasting effects.

Category 1

Dangerous for the R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects

environment in the aquatic environment.

#### 2.2. Label elements



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H410 Very toxic to aquatic life with long lasting effects.

Special labelling of certain EUH401: To avoid risks to human health and the environment, comply with the

substances and mixtures instructions for use.,

Contains: Tribenuron methyl / EUH208: May produce an allergic reaction.,

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.

SP 1 Do not contaminate water with the product or its container (Do not clean

application equipment near surface water/Avoid contamination via drains from

farmyards and roads).

#### 2.3. Other hazards

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

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

#### 3.1. Substances

Not applicable

# 3.2. Mixtures

Registration number	Classification according to Directive 67/548/EEC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
Thifensulfuron methyl (C	CAS-No.79277-27-3)		
, ,	N;R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	40 %
5-11	N - 404000 40 0) /EO N - 404	4.400.4\	
	-No.101200-48-0) (EC-No.40 <sup>o</sup> 0[Chronic])  R43 N;R50/53	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	10 %
M-Factor: 100[Ácute] 1	00[Chronic]) R43 N;R50/53	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	10 %
M-Factor: 100[Ácute] 1	00[Chronic]) R43	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	10 % >= 10 - < 15 %

Trisodium phosphate dodecahydrate (CAS-No.10101-89-0)

01-2119489800-32	C;R34	Skin Corr. 1C; H314 Eye Dam. 1; H318	>= 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. 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. 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. If skin irritation persists, call 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, Dry chemical, Carbon dioxide (CO2)

Extinguishing media which shall not be used for safety

: High volume water jet, (contamination risk)

reasons

## 5.2. Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Hazardous decomposition products formed under fire conditions. Carbon

dioxide (CO2) Nitrogen oxides (NOx)

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#### 5.3. Advice for firefighters

for firefighters

Special protective equipment : 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. 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.

## 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 Do not create a powder cloud by using a brush or compressed air. 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).

If spill area is on ground near valuable plants or trees, remove 5 cm of top soil

after initial clean-up.

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

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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.

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

Requirements for storage areas and containers

Store in a place accessible by authorized persons only. Store in original container. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. 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. 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: 0.3 mm

Glove length: Standard glove type.

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 shorter than 35 cm long shall be worn under the combination sleeve. Before removing gloves clean them

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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: Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Low application (horticulture, field crops): Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Middle-height application: Full protective clothing Type 4 (EN 14605)

Backpack / knapsack sprayer: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

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 ergonomy 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.

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.

Low application (horticulture, field crops): Half mask with a particle filter FFP1

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(EN149) Middle-height application: Half mask with a particle filter P1 (EN 143).

Backpack / knapsack sprayer: Low application (horticulture, field crops): Half mask with a particle filter FFP1 (EN149) Middle-height application: Half mask with a

particle filter P1 (EN 143).

### **SECTION 9: Physical and chemical properties**

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

Form : granular

Colour : light brown

Odour : slight

Odour Threshold : not determined

pH : 8.6 at 10 g/l ( 20 °C), Method: CIPAC MT 75

Melting point/range : Not available for this mixture.

Boiling point/boiling range : Not available for this mixture.

Flash point : Not applicable

Thermal decomposition : Not available for this mixture.

Auto-ignition temperature : Not available for this mixture.

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 applicable

Relative density : Not applicable

Bulk density : 688 kg/m3, packed

Water solubility : soluble

Partition coefficient: n-

octanol/water

: Not applicable

Viscosity, kinematic : Not applicable

Relative vapour density : Not applicable

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Evaporation rate : Not available for this mixture.

Minimum ignition energy : > 1 J

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 moisture. 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

: No materials to be especially mentioned.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute oral toxicity

LD50 / Rat female : > 5,000 mg/kg Method: Fixed Dose Method

Information given is based on data obtained from similar product. Information source: Internal study report

Acute inhalation toxicity

 Thifensulfuron methyl LC50 / 4 h Rat : > 7.9 mg/l

Tribenuron methyl

LC50 / 4 h Rat : > 6.0 mg/l

Acute dermal toxicity

LD50 / Rat : > 5,000 mg/kg

Method: OECD Test Guideline 402

Information given is based on data obtained from similar product. Information source: Internal study report

Skin irritation

Rabbit

Result: No skin irritation

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Method: OECD Test Guideline 404

Exposure time 72 h

Information given is based on data obtained from similar product. Information source: Internal study report

## Eye irritation

Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Exposure time 72 h

Information given is based on data obtained from similar product. Information source: Internal study report

#### Sensitisation

Mouse Local lymph node test

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

Method: OECD Test Guideline 429

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

#### Repeated dose toxicity

• Thifensulfuron methyl

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

Oral - feed multiple species

Reduced body weight gain

• Tribenuron methyl

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

Oral - feed Mouse Exposure time: 90 d NOAEL: 500 mg/kg Reduced body weight gain

Oral Rat

Exposure time: 28 d Reduced body weight gain

## Mutagenicity assessment

Thifensulfuron methyl

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

• Tribenuron methyl

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

### Carcinogenicity assessment

• Thifensulfuron methyl

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Animal testing did not show any carcinogenic effects.

Tribenuron methyl

Not classifiable as a human carcinogen. An increased incidence of tumours was observed in laboratory animals. Target(s): Mammary glands

Toxicity to reproduction assessment

- Thifensulfuron methyl
   No toxicity to reproduction Animal testing showed no reproductive toxicity.
- Tribenuron methyl No toxicity to reproduction

### Assessment teratogenicity

 Thifensulfuron methyl
 Did not show teratogenic effects in animal experiments. 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

static test / LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): > 130 mg/l

Method: OECD Test Guideline 203

Information given is based on data obtained from similar product. Information source: Internal study report

#### Toxicity to aquatic plants

ErC50 / 72 h / Pseudokirchneriella subcapitata (green algae): > 0.400 mg/l

Method: OECD Test Guideline 201

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

EC50 / 168 h / Lemna gibba (duckweed): 0.0022 mg/l Method: US EPA Test Guideline OPP 122-2 & 123-2

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

Toxicity to aquatic invertebrates

Immobilization / LC50 / 48 h / Daphnia magna (Water flea): > 130 mg/l

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Method: OECD Test Guideline 202

Information given is based on data obtained from similar product. Information source: Internal study report

Toxicity to soil dwelling organisms

LC50 / 14 d / Eisenia fetida (earthworms): > 1,000 mg/kg

Method: OECD Test Guideline 207

Information given is based on data obtained from similar product. Information source: Internal study report

Toxicity to other organisms

LD50 / 48 h / Apis mellifera (bees): > 112.2 µg/b

Method: OECD Test Guideline 213

Oral Information given is based on data obtained from similar product. Information source: Internal study

report

LD50 / 48 h / Apis mellifera (bees):  $> 100 \mu g/b$ 

Method: OECD Test Guideline 214

Contact Information given is based on data obtained from similar product. Information source: Internal study

report

Chronic toxicity to fish

Thifensulfuron methyl

NOEC / 62 d / Oncorhynchus mykiss (rainbow trout): 10.6 mg/l

Tribenuron methyl

NOEC / 21 d / Oncorhynchus mykiss (rainbow trout): > 560 mg/l

Chronic toxicity to aquatic Invertebrates

Thifensulfuron methyl

NOEC / 28 d / Americamysis bahia (mysid shrimp): 7.93 mg/l

Tribenuron methyl

NOEC / 21 d / Daphnia magna (Water flea): 120 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.

### 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.

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

PBT and vPvB assessment

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

#### 12.6. Other adverse effects

#### Additional ecological information

No other ecological effects to be specially mentioned See product label for additional application instructions relating to environmental precautions.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product : In accordance with local and national regulations. Must be incinerated in a

suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate ponds, waterways or ditches with chemical or

used container.

Contaminated packaging : Do not re-use empty containers.

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. (Thifensulfuron-methyl, Tribenuron methyl)

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.

(Thifensulfuron-methyl, Tribenuron methyl)

14.3. Transport hazard class(es):914.4. 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. (Thifensulfuron-methyl, Tribenuron methyl)

14.3. Transport hazard class(es):914.4. Packing group:III

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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

R34 Causes burns. R36 Irritating to eyes.

R43 May cause sensitisation by skin contact.

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.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 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

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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)

IBCInternational Bulk Chemical CodeICAOInternational Civil Aviation OrganizationISOInternational Standard OrganizationIMDGInternational 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.