and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

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 : GALILEO®

Synonyms : DPX-YT669 250SC

C12103839

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 : 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)-870-8200418

Poison Centres may only possess information required for products in

accordance with Regulation (EC) No 1272/2008 and national legislation.

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

Harmful R20: Harmful by inhalation.

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

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363



Warning

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.,

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

Re	egistration number	Classification according to Directive 67/548/FFC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
		J		

Picoxystrobin (CAS-No.117428-22-5) (M-Factor: 100[Acute] 1[Chronic])

(in rustor: respressed) (femomel)							
	Xn;R20	Acute Tox. 4; H332	25 %				
	Xi;R36	Eye Irrit. 2; H319					
	N;R50/53	Aquatic Acute 1; H400					
		Aquatic Chronic 1; H410					

Alkylnaphthalenesulfonic acid, sodium salt/formaldehyde polycondensate (CAS-No.68425-94-5) (EC-No.614-476-8)

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

Xi;R36/38	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 5 %

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. 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. Consider administration of activated charcoal and a

laxative.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Extinguishing media which

shall not be used for safety

: High volume water jet, (contamination risk)

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

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)

5.3. Advice for firefighters

Special protective equipment

for firefighters

: Wear full protective clothing and self-contained breathing apparatus.

Further information : (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.

: 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.

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.

Ventilate spill area. Take precautionary measures against static discharges. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

Environmental precautions : Use appropriate container to avoid environmental contamination. Prevent

further leakage or spillage if safe to do so. 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 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

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

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 the given occupational exposure limits (see section 8).

Advice on protection against fire and explosion

: Keep away from heat and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). 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

: 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.

Storage temperature : >= 5 °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.

Components with workplace control parameters

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

Туре	Control	Update	Basis	Remarks
Form of exposure	parameters			

Propane-1,2-diol (CAS-No. 57-55-6)

TWA	10 mg/m3	2007	EH40 WEL	
Particulate.				
TWA	474 mg/m3	2007	EH40 WEL	
Total vapour and	150 ppm			
particulates.				

8.2. Exposure controls

Engineering measures : Ensure adequate ventilation, especially in confined areas. Use sufficient

ventilation to keep employee exposure below recommended limits. 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

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 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: Full protective clothing Type 4 (EN 14605) Nitrile

rubber boots (EN 13832-3 / EN ISO 20345).

Tractor / sprayer with hood: No personal body protection normally required.

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).

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

> 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 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

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.

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 A1 (EN 141)

Mixer and loaders must wear: Half mask with vapour filter A1 (EN 141)

Spray application - outdoor: Tractor / sprayer without hood: Half mask with a particle filter FFP1 (EN149)

Tractor / sprayer with hood: No personal respiratory protective equipment normally required.

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).

Backpack / knapsack sprayer: Half mask with a particle filter P1 (EN 143).

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

> 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 : liquid

Colour : off-white

Odour : not significant

Odour Threshold : not determined

: 7.3 at 10 g/l (40 °C) рΗ

Melting point : Not applicable

Boiling point : Not available for this mixture.

Flash point : does not flash

Flammability (solid, gas) : The product is not flammable.

Ignition temperature : does not ignite

Thermal decomposition : Not available for this mixture.

: Test Type :Auto-ignition temperature, not auto-flammable Auto-ignition temperature

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.

: 1.11 g/cm3 at 21 °C Density

Relative density : Not available for this mixture.

Water solubility : miscible

Partition coefficient: n-

octanol/water

: Not applicable

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

Viscosity, dynamic : 80 mPa.s at 25 °C

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

: No dangerous reaction known under conditions of normal use. Polymerization hazardous reactions will not occur. Heating can release hazardous gases. No decomposition if

stored and applied as directed.

10.4. Conditions to avoid : Temperature : <= -5 °C To avoid thermal decomposition, do not overheat.

Protect from frost.

10.5. Incompatible materials : No materials to be especially mentioned.

10.6. Hazardous

decomposition products

Thermal decomposition can lead to release of irritating gases and vapours.

Burning produces noxious and toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

LD50 / Rat : > 2,000 mg/kg

Method: Directive 67/548/EEC, Annex V, B.1.

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

Acute inhalation toxicity

LC50 / 4 h Rat : > 5.31 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: Directive 67/548/EEC, Annex V, B.3.

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

Skin irritation

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

Rabbit

Result: No skin irritation

Method: Directive 67/548/EEC, Annex V, B.4.

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

Eye irritation

Rabbit

Result: No eye irritation

Method: Directive 67/548/EEC, Annex V, B.5.

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

Sensitisation

Guinea pig

Result: May cause sensitisation by skin contact. Method: Directive 67/548/EEC, Annex V, B.6.

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

Repeated dose toxicity

Picoxystrobin

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

Oral Mouse

Exposure time: 90 d

Reduced body weight gain, Increased liver weight, Gastrointestinal effects

Oral - feed Rat Exposure time: 90 d

Reduced body weight gain, Increased liver weight, No effect to neurotoxicity.

Oral Dog

Exposure time: 1 yr

Reduced body weight gain, altered blood chemistry

Oral Mouse

Exposure time: 1.5 yr

Reduced body weight gain, Increased liver weight

Reduced body weight gain, Increased liver weight, Gastrointestinal effects, altered blood chemistry

Mutagenicity assessment

Picoxystrobin

Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Overall weight of evidence indicates that the substance is not mutagenic.

Carcinogenicity assessment

Picoxystrobin

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic.

Toxicity to reproduction assessment

Picoxystrobin
 No toxicity to reproduction Animal testing showed no reproductive toxicity.

Assessment teratogenicity

Picoxystrobin
 Animal testing showed no developmental 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

LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): 0.24 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): 1.2 mg/l

Method: OECD Test Guideline 201

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

Toxicity to aquatic invertebrates

EC50 / 48 h / Daphnia magna (Water flea): 0.086 mg/l

Method: OECD Test Guideline 202

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

Toxicity to other organisms

LD50 / Apis mellifera (bees): > 0.2 mg/kg Method: OEPP/EPPO Test Guideline 170

Oral

LD50 / Apis mellifera (bees): > 0.2 mg/kg

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

Method: OEPP/EPPO Test Guideline 170

Contact

Chronic toxicity to fish

Picoxystrobin

NOEC / 33 d / Cyprinodon variegatus (sheepshead minnow): 0.021 mg/l

Chronic toxicity to aquatic Invertebrates

Picoxystrobin

NOEC / 21 d / Daphnia magna (Water flea): 0.008 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

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 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.

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

SECTION 14: Transport information

ADR

14.1. UN number: 3082

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

N.O.S. (Picoxystrobin)

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: 3082

14.2. UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s.

(Picoxystrobin)

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: 3082

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

N.O.S. (Picoxystrobin)

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.

and 453/2010



GALILEO®

Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

SECTION 16: Other information

Text of R-phrases mentioned in Section 3

R20 Harmful by inhalation. R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

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.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H332 Harmful 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

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):

and 453/2010



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Version 5.0 (replaces: Version 4.1)

Revision Date 18.12.2014 Ref. 130000031363

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. Registered trademark of E.I. du Pont de Nemours and Company

Significant change from previous version is denoted with a double bar.

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