



VYDATE® 10 G

Version 2.1 (replaces: Version 2.0)

Revision Date 20.07.2016

Ref. 130000000049

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 : VYDATE® 10 G
Synonyms : B10049174
DPX-D1410 10 G

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

1.4. 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.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Acute toxicity, Category 2 H300: Fatal if swallowed.
Acute toxicity, Category 3 H331: Toxic if inhaled.
Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

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2.2. Label elements



Danger

H300 Fatal if swallowed.
H331 Toxic if inhaled.
H412 Harmful 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 dust.
P264 Wash hands thoroughly after handling.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P321 Specific treatment (see supplemental first aid instructions on this label).
P330 Rinse mouth.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
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.

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).
Restricted to professional users.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
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**Oxamyl (CAS-No.23135-22-0) (EC-No.245-445-3)
(M-Factor : 1[Acute])**

	Acute Tox. 2; H300 Acute Tox. 2; H330 Acute Tox. 4; H312 Aquatic Chronic 2; H411	10 %
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Cyclohexanone (CAS-No.108-94-1) (EC-No.203-631-1)

	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318	$\geq 5 - < 10 \%$
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Phosphoric acid (CAS-No.7664-38-2) (EC-No.231-633-2)

01-2119485924-24	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318	$\geq 1 - < 5 \%$
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The above products are compliant to REACH registration obligations; 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 H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

- General advice : Call a physician or poison control centre immediately. If breathing is irregular or stopped, administer artificial respiration. Never give anything by mouth to an unconscious person.
- : Contains an N-methyl carbamate that inhibits cholinesterase. This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.
- 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. If after contact with the skin signs of poisoning appear, call a physician or poison control centre immediately.



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- 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 advice/ attention.
- Ingestion : Call a physician or poison control centre immediately. If victim is conscious: If swallowed, drink 1 or 2 glasses of water and try once or twice to induce vomiting by touching the back of throat with finger. Rinse mouth with water.

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

- Risks : Allow no further exposure to any cholinesterase inhibitor until full recovery is assured.
- Symptoms : Poisoning produces effects associated with anticholinesterase activity which may include:
- : Weakness, Blurred vision, Breathing difficulties, Nausea, Headache, Abdominal pain, discomfort in the chest, constriction of pupils, slow pulse, sweating, muscle twitching

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

- Treatment : Administer atropine sulphate as an antidote until complete atropinisation (1.2-2.0 mg i.v. every 10-30 minutes). 2-PAM may be used as an antidote in conjunction with atropine sulphate but must not be used alone. Allow no further exposure to any cholinesterase inhibitor until full recovery is assured.
- : Contraindication: Oximes (pralidoxime), succinylcholine and other cholinergic agents, respiratory stimulants and physostigmine. Morphine therapy is contraindicated.

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 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 (CO₂) Nitrogen oxides (NO_x)

5.3. Advice for firefighters

- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.



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- 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
- : Evacuate personnel to safe areas. Control access to area. Avoid dust formation. 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. Avoid breathing dust. 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 Sweep up or vacuum up spillage and collect in suitable container for disposal.
Clean-up methods - large spillage Avoid dust formation. Knock down dust with water spray jet. 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 in an area equipped with a safety shower. Use only according to our recommendations.



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Wear personal protective equipment. Use only clean equipment. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust or spray mist. Use prepared working solution as soon as possible - Do not store. In case of insufficient ventilation, wear suitable respiratory equipment. Prepare the working solution as given on the label(s) and/or the user instructions. Avoid exceeding the given occupational exposure limits (see section 8). For personal protection 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 : Keep locked up or in an area accessible only to qualified or authorised persons. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. 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.

Derived No Effect Level (DNEL)

- Phosphoric acid : Type of Application (Use): Workers
Exposure routes: Inhalation
Health Effect: Chronic effects, Local effects
Value: 2,92 mg/m³

: Type of Application (Use): Consumer use
Exposure routes: Inhalation
Health Effect: Chronic effects, Local effects
Value: 0,73 mg/m³

8.2. Exposure controls

Engineering measures : Ensure adequate ventilation, especially in confined areas. Use only in area provided with appropriate exhaust ventilation. Provide for appropriate exhaust ventilation and dust collection at machinery.



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- 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 5 (EN 13982-2)

Mixer and loaders must wear: Full protective clothing Type 5 (EN 13982-2)
Rubber apron Rubber or plastic boots

Soil incorporation - outdoor Tractor / sprayer with hood: No personal body protection normally required. Tractor / sprayer without hood: Full protective clothing Type 5 (EN 13982-2)

Mechanical automatized spray application in closed tunnel: No personal body protection normally required.

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 : All Personal Protection Equipment should be checked before use to confirm it is compatible with the chemicals you are handling.
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. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes and clothing. Avoid breathing dust or solution spray. 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. For environmental protection remove and wash all contaminated protective equipment before re-use. Remove clothing/PPE immediately if material gets inside. Dispose of rinse water in accordance with local and national regulations.
- Respiratory protection : Manufacturing and processing work: Half mask with a particle filter FFP3 (EN149)
- Mixer and loaders must wear: Half mask with vapour filter A3 (EN 141)
- Soil incorporation - outdoor Tractor / sprayer with hood: No personal respiratory protective equipment normally required. Tractor / sprayer without hood: Half mask with a particle filter P3 (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 : granules
- Colour : blue green
- Odour : slight, solvent-like
- Odour Threshold : not determined
- pH : 6,8 at 100 g/l (24 °C)
- Melting point/range : Not available for this mixture.
- Flash point : Not applicable
- Flammability (solid, gas) : Does not sustain combustion.
- Thermal decomposition : Not available for this mixture.
- Auto-ignition temperature : Not available for this mixture.
- Oxidizing properties : The product is not oxidizing.
- Lower explosion limit/ lower flammability limit : Not available for this mixture.



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Upper explosion limit/ upper flammability limit : Not available for this mixture.

Vapour pressure : Not available for this mixture.

Relative density : Not available for this mixture.

Bulk density : 720 kg/m³

Water solubility : 229 g/l at 25 °C

Partition coefficient: n-octanol/water : Not applicable

Viscosity, dynamic : 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. Burning produces noxious and toxic fumes. No decomposition if stored and applied as directed.

10.4. Conditions to avoid : Heating can release hazardous gases. 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 male : 43 mg/kg



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Method: OECD Test Guideline 401

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

LD50 / Rat female : 34 mg/kg

Method: OECD Test Guideline 401

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

Acute inhalation toxicity

LC50 / 4 h Rat : 0,68 mg/l

Method: OECD Test Guideline 403

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

Acute dermal toxicity

LD50 / Rabbit : > 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)

Eye irritation

Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

(Data on the product itself)

Sensitisation

Guinea pig Modified Buehler Test

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

Method: OECD Test Guideline 406

(Data on the product itself)

Repeated dose toxicity

- Oxamyl

Oral - feed multiple species

Exposure time: 15 d

LOAEL: 0,75 mg/kg

Reduced body weight gain, cholinesterase inhibition

Oral - feed multiple species

Exposure time: 15 d

LOAEL: 0,75 mg/kg



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Reduced body weight gain, cholinesterase inhibition, Information source: Internal study report

- Cyclohexanone

Ingestion Rat

Exposure time: 90 d

NOAEL: 143 mg/kg

LOAEL: 407 mg/kg

Method: OECD Test Guideline 408

No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., Adverse body weight effects, Information source: Data provided by an external source.

Mutagenicity assessment

- Oxamyl

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

- Cyclohexanone

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

Carcinogenicity assessment

- Oxamyl

Did not show carcinogenic effects in animal experiments. Not classifiable as a human carcinogen.

- Cyclohexanone

Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.

Toxicity to reproduction assessment

- Oxamyl

No toxicity to reproduction Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.

- Cyclohexanone

No toxicity to reproduction Evidence suggests the substance is not a reproductive toxin in animals. No effects on or via lactation

Assessment teratogenicity

- Oxamyl

Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

- Cyclohexanone

Animal testing showed no developmental toxicity.

STOT - single exposure



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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 / *Lepomis macrochirus* (Bluegill sunfish): 47 mg/l

Method: OECD Test Guideline 203

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

Toxicity to aquatic plants

EbC50 / 72 h / *Pseudokirchneriella subcapitata* (green algae): 8,6 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): 3,3 mg/l

Method: OECD Test Guideline 202

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

Chronic toxicity to fish

- Oxamyl

Early Life-Stage / NOEC / 61 d / *Oncorhynchus mykiss* (rainbow trout): 0,77 mg/l

Method: US EPA Test Guideline OPP 72-4

Information source: Internal study report

Chronic toxicity to aquatic Invertebrates

- Oxamyl

flow-through test / NOEC / 21 d / *Daphnia magna* (Water flea): 0,0268 mg/l

Method: OECD Test Guideline 202

Information source: Internal study report

12.2. Persistence and degradability

Biodegradability

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



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12.3. Bioaccumulative potential

Bioaccumulation

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

12.4. Mobility in soil

Mobility in soil

Potentially mobile, but the leaching potential is mitigated by rapid degradation.

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.

SECTION 14: Transport information

ADR

- 14.1. UN number: 2757
14.2. UN proper shipping name: CARBAMATE PESTICIDE, SOLID, TOXIC (Oxamyl)
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
14.5. Environmental hazards: Environmentally hazardous
14.6. Special precautions for user:
Tunnel restriction code: (D/E)

IATA_C

- 14.1. UN number: 2757



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- 14.2. UN proper shipping name: Carbamate pesticide, solid, toxic (Oxamyl)
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
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: 2757
14.2. UN proper shipping name: Carbamate pesticide, solid, toxic (Oxamyl)
14.3. Transport hazard class(es): 6.1
14.4. Packing group: II
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.

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

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

- H226 Flammable liquid and vapour.
H290 May be corrosive to metals.
H300 Fatal if swallowed.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.



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H330 Fatal if inhaled.
H332 Harmful if inhaled.
H411 Toxic to aquatic life with long lasting effects.

Other information professional use

Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE Acute toxicity estimate
CAS-No. Chemical Abstracts Service number
CLP Classification, Labelling and Packaging
EbC50 Concentration at which 50% reduction of biomass is observed
EC50 Median effective concentration
EN European Norm
EPA Environmental Protection Agency
ErC50 Concentration at which a 50% inhibition of growth rate is observed
EyC50 Concentration at which 50 % inhibition of yield is observed
IATA_C International Air Transport Association (Cargo)
IBC International Bulk Chemical Code
ICAO International Civil Aviation Organization
ISO International Standard Organization
IMDG International Maritime Dangerous Goods
LC50 Median Lethal Concentration
LD50 Median Lethal Dose
LOEC Lowest Observed Effect Concentration
LOEL Lowest 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

Restrictions on use

It is forbidden to appoint minors for work exposing them to this product.

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.



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