



VYDATE® 24L

Version 4.0

(replaces: Version 3.0)

Revision Date 17.07.2015

Ref. 130000000046

This Safety Data Sheet adheres to the standards and regulatory requirements of the European Community and may not meet the regulatory requirements of other countries.

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

1.1. Product identifier

Product name : VYDATE® 24L
Synonyms : DPX-D1410 24L
B10049186

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

Use of the Substance/Mixture : Insecticide, Nematicide

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
: 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 EU Directives 67/548/EEC or 1999/45/EC

Flammable	R10: Flammable.
Very toxic	R26/28: Very toxic by inhalation and if swallowed.
Toxic	R24: Toxic in contact with skin. R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
Dangerous for the environment	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

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

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Very toxic

R10	Flammable.
R24	Toxic in contact with skin.
R26/28	Very toxic by inhalation and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Special labelling of certain substances and mixtures	To avoid risks to man and the environment, comply with the instructions for use.
S 1/2	Keep locked up and out of the reach of children.
S13	Keep away from food, drink and animal feedingstuffs.
S20/21	When using do not eat, drink or smoke.
S28	After contact with skin, wash immediately with plenty of water.
S35 S36/37	This material and its container must be disposed of in a safe way. Wear suitable protective clothing and gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S57	Use appropriate container to avoid environmental contamination.
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).
SPo 2	Wash all protective clothing after use.

2.3. Other hazards

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients



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Chemical nature of the mixture : Pesticide

3.1. Substances

Not applicable

3.2. Mixtures

Classification according to Directive 67/548/EEC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration
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Methanol (CAS-No.67-56-1) (EC-No.200-659-6)

F;R11 T;R23/24/25 R39/23/24/25	Flam. Liq. 2; H225 Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 STOT SE 1; H370	>= 25 - < 50 %
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Oxamyl (CAS-No.23135-22-0) (EC-No.245-445-3)

T+;R26/28 Xn;R21 N;R51/53	Acute Tox. 2; H300 Acute Tox. 2; H330 Acute Tox. 4; H312 Aquatic Chronic 2; H411	>= 20 - < 25 %
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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.
: Contains an N-methyl carbamate that inhibits cholinesterase.
- Inhalation : Move to fresh air. Artificial respiration and/or oxygen may be necessary. Call a physician or poison control centre immediately.
- 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 : Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist.
- Ingestion : Call a physician or poison control centre immediately. Do not induce vomiting without medical advice. If victim is conscious: Rinse mouth with water.

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



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Risks : This product is a cholinesterase inhibitor carbamate. Dangerous amounts can be absorbed through the skin.

Symptoms : Poisoning produces effects associated with anticholinesterase activity which may include: Breathing difficulties, muscle twitching, sweating, Daze, Headache, Weakness, Blurred vision, constriction of pupils

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, Dry chemical, Foam, 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 : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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. Ventilate the area. Use personal protective equipment. Refer to protective measures listed in



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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 : Neutralise with sodium hydroxide and allow to stand for 4 hours.
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 with local regulations.

6.4. Reference to other sections

For disposal instructions see section 13., For personal protection see section 8.

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 clean equipment. Avoid inhalation of vapour or mist. Provide adequate ventilation. Wear personal protective equipment. For personal protection see section 8.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. 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. Keep in properly labelled containers.

Advice on common storage : No special restrictions on storage with other products. Keep away from:



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Oxidizing agents

Storage temperature : > 0 °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.

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 of 35 cm long or longer.
Protection index: Class 6
Wearing time: 8 h
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. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Gauntlets of 35 cm long or longer shall be worn over the combination sleeve. Before removing gloves clean them with soap and water.

|| Skin and body protection : Manufacturing and processing work: Full protective clothing Type 5 (EN 13982-2)

Mixer and loaders must wear: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Rubber apron Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Field and greenhouse application: Spray application - outdoor: 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.



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Drip irrigation: No personal body protection normally required.

When exceptional circumstances would require an access to the treated area before the end of re-entry periods, wear full protective clothing Type 6 (EN 13034), nitrile rubber gloves class 2 (EN 374) and nitrile rubber boots (EN 13832-3 / EN ISO 20345).

To optimize the ergonomics it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.

Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use.

The permeation resistance of the fabric must be verified independently of the « type » protection recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. Only protected handlers may be in the area during application.

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. Avoid contact with skin, eyes and clothing. Avoid exposure to vapour. Wash hands and face before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Remove clothing/PPE immediately if material gets inside. For environmental protection remove and wash all contaminated protective equipment before re-use. 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 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: Middle-height application: High application: Half mask with a particle filter P3 (EN 143).

Drip irrigation: No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form : liquid



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Colour	: green
Odour	: slight, sulphurous
Odour Threshold	: not determined
pH	: 3,6 at 10 g/l (25 °C)
Solidification point	: -5 °C
Boiling point/boiling range	: Not available for this mixture.
Flash point	: 23 °C
Flammability (solid, gas)	: not auto-flammable
Thermal decomposition	: Not available for this mixture.
Auto-ignition temperature	: Test Type :Auto-ignition temperatureNot 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 available for this mixture.
Density	: 0,966 g/cm ³ at 20 °C
Solubility/qualitative	: completely miscible
Water solubility	: soluble
Viscosity, dynamic	: 2 - 2,2 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 : Not available for this mixture.

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. |



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- 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** : Processing temperature : > 130 °C Protect from frost.
- 10.5. Incompatible materials** : Incompatible with oxidizing agents.
- 10.6. Hazardous decomposition products** : Heating can release vapours which can be ignited.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

LD50 / Rat male : 10 mg/kg
Method: OECD Test Guideline 401
(Data on the product itself) Information source: Internal study report

LD50 / Rat female : 9 mg/kg
Method: OECD Test Guideline 401
(Data on the product itself) Information source: Internal study report

Acute inhalation toxicity

LC50 / 4 h Rat : 0,3 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) Information source: Internal study report

Eye irritation

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

Sensitisation

Guinea pig
Result: Animal test did not cause sensitization by skin contact.
Method: OECD Test Guideline 406



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

Repeated dose toxicity

- Oxamyl
Oral - feed multiple species
Exposure time: 15 d
LOAEL: 0,75 mg/kg
Reduced body weight gain, cholinesterase inhibition

Mutagenicity assessment

- Methanol
Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Overall weight of evidence indicates that the substance is not mutagenic. Did not cause genetic damage in animals. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others. Genetic damage in cultured bacterial cells was observed in some laboratory tests but not in others.
- Oxamyl
Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment

- Methanol
Not classifiable as a human carcinogen. Overall weight of evidence indicates that the substance is not carcinogenic.
- Oxamyl
Did not show carcinogenic effects in animal experiments. Not classifiable as a human carcinogen.

Toxicity to reproduction assessment

- Methanol
No toxicity to reproduction Evidence suggests the substance is not a reproductive toxin in animals.
- Oxamyl
No toxicity to reproduction Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.

Assessment teratogenicity

- Methanol
Evidence suggests the substance is not a developmental toxin in animals.
- Oxamyl
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

STOT - single exposure

|| Refer to acute toxicity data for more information on target organs if applicable.



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STOT - repeated exposure

|| Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.

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): 27 mg/l
Method: OECD Test Guideline 203
(Data on the product itself) Information source: Internal study report

Toxicity to aquatic plants

|| ErC50 / 72 h / *Selenastrum capricornutum* (green algae): 34 mg/l
Method: OECD Test Guideline 201
(Data on the product itself) Information source: Internal study report

Toxicity to aquatic invertebrates

|| Static renewal test / EC50 / 48 h / *Daphnia* (water flea): 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

Chronic toxicity to aquatic Invertebrates

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



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12.4. Mobility in soil

Mobility in soil

II Mobile in soils

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). / This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects

Additional ecological information

II 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.

II European Waste Catalogue number : 020108: agrochemical waste containing dangerous substances

SECTION 14: Transport information

ADR

14.1. UN number: 2991
14.2. UN proper shipping name: CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Methanol, 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:
Tunnel restriction code: (D/E)

IATA_C

14.1. UN number: 2991
14.2. UN proper shipping name: Carbamate pesticide, liquid, toxic, flammable (Methanol, 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:

II DuPont internal recommendations and transport guidance: ICAO / IATA cargo aircraft only



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IMDG

- 14.1. UN number: 2991
- 14.2. UN proper shipping name: CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Methanol, 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 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 mixture is classified as dangerous in accordance with Directive 1999/45/EC. 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 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.
Restricted to professional users.

SECTION 16: Other information

Text of R-phrases mentioned in Section 3

R10 Flammable.

R11 Highly flammable.

R21 Harmful in contact with skin.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R24 Toxic in contact with skin.

R26/28 Very toxic by inhalation and if swallowed.

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

H225 Highly flammable liquid and vapour.

H300 Fatal if swallowed.

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H370 Causes damage to organs.

H411 Toxic to aquatic life with long lasting effects.

Issued by İrem Çağın irem.cagin@dupont.com Certified Safety Data Sheet maker –
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Other information professional use



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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.

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.



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