

Lannate® 90 Blue

Ref. 130000094183
Version 2.1 (replaces: Version 2.0)

Revision Date 08.08.2019
Issue Date 09.08.2019

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 : Lannate® 90 Blue
Synonyms : B10055363
DPX-X1179 90 SP

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

no data available

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@Corteva.com

1.4. Emergency telephone number

Emergency telephone number : +(44)-870-8200418 (CHEMTREC)
: Poison Centres may only possess information required for products in accordance with Regulation (EC) No 1272/2008 and national legislation.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity, Category 2	H300: Fatal if swallowed.
Acute toxicity, Category 2	H330: Fatal if inhaled.
Specific target organ toxicity - single exposure, Category 3	H336: May cause drowsiness or dizziness.(Central nervous system)
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EU) 1272/2008 (CLP)





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Danger

H300 + H330 Fatal if swallowed or if inhaled.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

Special labelling of certain substances and mixtures

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 1,1375 %

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P273 Avoid release to the environment.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P391 Collect spillage.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

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

SP 1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

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).
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Classification according to Directive 67/548/EEC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration
Methomyl (CAS-No.16752-77-5) (EC-No.240-815-0)		
T+;R28 T;R23 N;R50/53 R67	Acute Tox. 2; H300 Acute Tox. 2; H330 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	90 %

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.

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SECTION 4: First aid measures

4.1. Description of first aid measures

- General advice : Contains an N-methyl carbamate that inhibits cholinesterase.
- : Never give anything by mouth to an unconscious person.
- 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 easy to do, remove contact lens, if worn. If eye irritation persists, consult a specialist.
- Ingestion : Call a physician or poison control centre immediately. 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. Induce vomiting if person is conscious. Never give anything by mouth to an unconscious person.

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.
- : Morphine therapy is contra-indicated.
- Symptoms : Poisoning produces effects associated with anticholinesterase activity which may include: Weakness, Blurred vision, Headache, Nausea, Abdominal pain, discomfort in the chest, constriction of pupils, Sweating, slow pulse, 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).
- : Contraindication: Oximes (pralidoxime), succinylcholine and other cholinergic agents, respiratory stimulants and physostigmine. Morphine therapy is contra-indicated.

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

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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.

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. Avoid breathing dust. Avoid dust formation. Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. 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



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Advice on safe handling : Use only in an area equipped with a safety shower.

Use only clean equipment. Do not breathe dust or spray mist. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. For personal protection see section 8.

Advice on protection against fire and explosion : During processing, dust may form explosive mixture in air. Keep away from heat and sources of ignition. Avoid dust formation in confined areas.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep locked up. Store in original container. Store in a place accessible by authorized persons only. 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 : < 38 °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. For further information on any control parameters provided, please refer to the relevant regulation.

Components with workplace control parameters

Type Form of exposure	Control parameters (Expressed as)	Update	Regulatory basis
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Methomyl (CAS-No. 16752-77-5)

8-hour, time-weighted average Inhalable fraction and vapor	0,2 mg/m ³	2016-03-01	USA. ACGIH Threshold Limit Values (TLV)
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Biological Limits

- Methomyl : Control parameters: cholinesterase (red blood cells)
Material: Blood
Update: 2011-08-29
Regulatory basis: Israel. Safety at Work Regulations - Annex III Biological Exposure Indices
- : Control parameters: cholinesterase (red blood cells)
Material: Blood
Update: 2011-08-29
Regulatory basis: Israel. Safety at Work Regulations - Annex III Biological Exposure Indices

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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.
- 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 Regulation (EU) 2016/425 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 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).
Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required. Tractor / sprayer without hood: Full protective clothing Type 3 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Backpack / knapsack sprayer: Full protective clothing Type 3 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Spray application - indoor: Full protective clothing Type 3 (EN 14605) Rubber or plastic boots Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Mechanical automatized spray application in closed tunnel: No personal body protection normally required.
When exceptional circumstances require an access to the treated area before the end of re-entry periods, wear full protective clothing Type 6 (EN 13034), nitrile rubber gloves class 3 (EN 374) and nitrile rubber boots (EN 13832-3 / EN ISO 20345).

To optimize the ergonomics it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.
Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use.
The permeation resistance of the fabric must be verified independently of the « type » protection recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure.
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated. Only protected handlers may be in the area during

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Hygiene measures	:	application. 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 breathing dust. Avoid contact with skin, eyes and clothing. Wash hands and face before breaks and immediately after handling the product. When using do not eat or drink. Keep away from food, drink and animal feedingstuffs. 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 FFP3 (EN149) Mixer and loaders must wear: Half mask with vapour filter A3 (EN 141) Spray application - 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). Backpack / knapsack sprayer: Half mask with a particle filter P3 (EN 143). Spray application - indoor: Half mask with combination filter A2/P3 (EN 141) Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Form	:	solid, powder
Colour	:	blue
Odour	:	slight, sulphurous
Odour Threshold	:	not determined
pH	:	6,8 - 7,2 at 10 g/l (25 °C)
Melting point/range	:	78 - 79 °C
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Self-Accelerating decomposition temperature (SADT)	:	no data available
Flammability (solid, gas)	:	The product is not flammable.
Ignition temperature	:	no data available
Thermal decomposition	:	Not available for this mixture.
Oxidizing properties	:	The product is not oxidizing.
Explosive properties	:	Not explosive
Lower explosion limit/ Lower flammability limit	:	no data available

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Upper explosion limit/ upper flammability limit	: Not available for this mixture.
Vapour pressure	: Not available for this mixture.
Density	: no data available
Relative density	: 1,2946 at 25 °C
Bulk density	: 540 - 640 kg/m ³
Water solubility	: 58 g/l at 25 °C
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: Test Type: Auto-ignition temperature Not available for this mixture.
Solubility in other solvents	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: Not applicable
Relative vapour density	: Not applicable
Evaporation rate	: Not applicable

9.2. 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 decomposition if stored and applied as directed.
10.4. Conditions to avoid	: Temperature : > 38 °C
10.5. Incompatible materials	: Strong bases
10.6. Hazardous decomposition products	: Hydrogen cyanide (hydrocyanic acid) Sulphur dioxide Methyl isocyanate

SECTION 11: Toxicological information
11.1. Information on toxicological effects

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Acute oral toxicity

LD50 / Rat : 23 mg/kg
(Data on the product itself) Information source: Internal study report

Acute inhalation toxicity

LC50 / 4 h Rat : 0,258 mg/l
Method: OECD Test Guideline 403
The toxicological data has been taken from products of similar composition. Information source: Internal study report

Acute dermal toxicity

LD50 / Rat : > 2 000 mg/kg
Method: US EPA Test Guideline OPP 81-2
The toxicological data has been taken from products of similar composition. Information source: Internal study report

Skin irritation

Rabbit
Result: No skin irritation
Method: OECD Test Guideline 404
The toxicological data has been taken from products of similar composition. Information source: Internal study report

Eye irritation

Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
The toxicological data has been taken from products of similar composition. Information source: Internal study report

Respiratory or skin sensitisation

Guinea pig
Result: Animal test did not cause sensitization by skin contact.
(Data on the product itself) Information source: Internal study report

Mutagenicity assessment

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

Carcinogenicity assessment

- Methomyl
Animal testing did not show any carcinogenic effects.

Toxicity to reproduction assessment

- Methomyl
No toxicity to reproduction Animal testing showed no reproductive toxicity. No effects on or via lactation

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Assessment teratogenicity

- Methomyl
Animal testing showed no developmental toxicity.

Further information

May be lethal if absorbed through eyes: a rabbit died via ocular exposure. This exposure was within the equivalent range that produced mortalities via oral administration.

SECTION 12: Ecological information**12.1. Toxicity**

Toxicity to fish

LC50 / 96 h / *Lepomis macrochirus* (Bluegill sunfish): 0,63 mg/l

Method: OECD Test Guideline 203

The toxicological data has been taken from products of similar composition. Information source: Internal study report

Toxicity to aquatic plants

ErC50 / 72 h / *Desmodesmus subspicatus* (green algae): > 100 mg/l

Method: OECD Test Guideline 201

The toxicological data has been taken from products of similar composition. Information source: Internal study report

Toxicity to aquatic invertebrates

static test / EC50 / 48 h / *Daphnia* (water flea): 0,017 mg/l

Method: OECD Test Guideline 202

The toxicological data has been taken from products of similar composition. Information source: Internal study report

Toxicity to other organisms

LC50 / 8 d / *Anas platyrhynchos* (Mallard duck): 3 952 mg/kg

Method: OECD Test Guideline 205

The toxicological data has been taken from products of similar composition. Information source: Internal study report

LC50 / 8 d / *Colinus virginianus* (Bobwhite quail): > 5 620 mg/kg

Method: OECD Test Guideline 205

The toxicological data has been taken from products of similar composition. Information source: Internal study report

LD50 / 2 d / *Apis mellifera* (bees): 0,00028 mg/kg

Method: US EPA Test Guideline OPPTS 850.3020

Oral The toxicological data has been taken from products of similar composition. Information source: Internal study report

LD50 / 2 d / *Apis mellifera* (bees): 0,00016 mg/kg

Method: US EPA Test Guideline OPPTS 850.3020

Contact The toxicological data has been taken from products of similar composition. Information source:

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Internal study report

12.2. Persistence and degradability

Biodegradability

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

12.3. Bioaccumulative potential

Bioaccumulation

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

12.4. Mobility in soil

Mobility in soil

Under actual use conditions the product has a low potential of mobility in soil.

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).

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 (Methomyl)
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:

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Tunnel restriction code: (D/E)

IATA_C

- 14.1. UN number: 2757
 14.2. UN proper shipping name: Carbamate pesticide, solid, toxic (Methomyl)
 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 (Methomyl)
 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:
 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
Major Accident Hazard Legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
 ACUTE TOXIC
 Quantity: 50 t, 200 t

Major Accident Hazard Legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
 ENVIRONMENTAL HAZARDS
 Quantity: 100 t, 200 t

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

- R23 Toxic by inhalation.
 R28 Very toxic if swallowed.
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R67 Vapours may cause drowsiness and dizziness.

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

H300	Fatal if swallowed.
H330	Fatal if inhaled.
H336	May cause drowsiness or dizziness.
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):
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.

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

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Note: The information on components provided in sections 11 and 12 of this safety data sheet may in some cases not align with a legally binding classification on the basis of technical progress and availability of new information.

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.