DUPONT™ LANNATE® 20 SL

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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 : DUPONT™ LANNATE® 20 SL
Synonyms : C10607771
DPX-X1179-524

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
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)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Acute toxicity, Category 3	H301: Toxic if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Eye irritation, Category 2	H319: Causes serious eye irritation.
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)

Danger

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H319	Causes serious eye irritation.
H332	Harmful 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	EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing 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.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
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 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.
May be fatal if absorbed through eyes.
Restricted to professional users.

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

Classification according to	Classification according to	Concentration

Directive 67/548/EEC	Regulation (EU) 1272/2008 (CLP)	

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	20 %

Ethanol (CAS-No.64-17-5) (EC-No.200-578-6)

F;R11 Xi;R36 Xn;R68	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 20 - < 25 %

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 : 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. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

: 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.

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.

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 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, but only if victim is fully conscious. 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:, Breathing difficulties, Shortness of breath, Dizziness, Nausea, Weakness, Headache, Blurred vision, constriction of pupils, slow pulse, sweating, muscle twitching

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

Treatment	:	Contraindication: Oximes (pralidoxime), succinylcholine and other cholinergic agents, respiratory stimulants and physostigmine. Morphine therapy is contra-indicated.
	:	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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Dry chemical, Water spray, 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 (NOx)

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. 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	:	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

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 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	:	Keep locked up or in an area accessible only to qualified or authorised persons. Store in original container. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.
Advice on common storage	:	No special restrictions on storage with other products.
Other data	:	Stable under recommended storage conditions.

7.3. Specific end use(s)

Plant protection products subject to Regulation (EC) No 1107/2009.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

If sub-section is empty then no values are applicable. 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
Methomyl (CAS-No. 16752-77-5)			
8-hour, time-weighted average Inhalable fraction and vapor	0,2 mg/m3	2016-03-01	USA. ACGIH Threshold Limit Values (TLV)
Ethanol (CAS-No. 64-17-5)			
Short-term exposure limit	1 000 ppm	2013-03-01	USA. ACGIH Threshold Limit Values (TLV)
Methanol (CAS-No. 67-56-1)			
Limit Value - eight hours	260 mg/m3 200 ppm	2006-02-09	Europe. Indicative occupational exposure limit values
8-hour, time-weighted average	200 ppm	2013-03-01	USA. ACGIH Threshold Limit Values (TLV)
Short-term exposure limit	250 ppm	2013-03-01	USA. ACGIH Threshold Limit Values (TLV)

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

8.2. Exposure controls

Engineering measures : Ensure adequate ventilation, especially in confined areas. Since the mixture includes an organic solvent, electrical equipment must be explosion-proof and free from ignition sources such as static electricity and sparks.

Eye protection : Safety glasses with side-shields

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: > 480 min
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 4 (EN 14605)
Mixer and loaders must wear: Full protective clothing Type 4 (EN 14605)
Rubber apron Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
Spray application - outdoor: Tractor / sprayer with hood: No personal body protection normally required. Tractor / sprayer without hood: Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Low application: Full protective clothing Type 4 (EN 14605) Middle-height application: Full protective clothing Type 3 (EN 14605)
Backpack / knapsack sprayer: Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Low application: Full protective clothing Type 4 (EN 14605) Middle-height application: Full protective clothing Type 3 (EN 14605)
High application: Full protective clothing Type 3 (EN 14605) 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 ergonomy it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.
Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use.
The permeation resistance of the fabric must be verified independently of the « type » protection recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure.

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

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks and immediately after handling the product. 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 combination filter A2/P3 (EN 141)
Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory protective equipment normally required. Tractor / sprayer without hood: Half mask with combination filter A2/P3 (EN 141)

Backpack / knapsack sprayer: 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	: liquid
Colour	: blue
Odour	: alcohol-like
Odour Threshold	: not determined
pH	: 4,9
Melting point/range	: Not applicable
Boiling point/boiling range	: Not available for this mixture.
Flash point	: 34,5 ℃
Self-Accelerating decomposition temperature (SADT)	: no data available
Flammability (solid, gas)	: no data available
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	: 3,3 vol%
Upper explosion limit/ upper flammability limit	: Not available for this mixture.
Vapour pressure	: Not available for this mixture.
Density	: 1,036 g/cm3 at 20 ℃
Relative density	: no data available
Bulk density	: no data available
Water solubility	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: 304 ℃

Solubility in other solvents	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: Not applicable
Relative vapour density	: Not available for this mixture.
Evaporation rate	: Not available for this mixture.

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	: Vapours may form explosive mixture with air. Vapour/air-mixtures are explosive at intense warming. No decomposition if stored and applied as directed.
10.4. Conditions to avoid	: Heat, flames and sparks.
10.5. Incompatible materials	: No materials to be especially mentioned.
10.6. Hazardous decomposition products	: Hydrogen cyanide (hydrocyanic acid) Methyl isocyanate Sulphur oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

LD50 / Rat : 132 mg/kg
Method: OECD Test Guideline 401
(Data on the product itself) Information source: Internal study report

Acute inhalation toxicity

LC50 / 4 h Rat : 1,28 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 : > 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
Exposure time 72 h
(Data on the product itself) Information source: Internal study report

Eye irritation

Rabbit
Result: Severe eye irritation
Method: OECD Test Guideline 405
(Data on the product itself) Information source: Internal study report

Respiratory or skin sensitisation

Guinea pig Buehler Test
Result: Animal test did not cause sensitization by skin contact.
Method: OECD Test Guideline 406
(Data on the product itself) Information source: Internal study report

- Ethanol
  Mouse
  Classification: Does not cause skin sensitisation.
  Result: Does not cause skin sensitisation.
  Method: OECD Test Guideline 429

Repeated dose toxicity

- Ethanol
  Ingestion Mouse
  Exposure time: 90 d
  NOAEL: 17 000 mg/kg
  Method: OECD Test Guideline 408
  No toxicologically significant effects were found.

  Inhalation Rat
  Exposure time: 28 d
  NOAEL: 11,5 mg/l
  No toxicologically significant effects were found.

Mutagenicity assessment

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

- Ethanol
  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.

- Ethanol
  No evidence of carcinogenicity in animal studies. Overall weight of evidence indicates that the substance is not carcinogenic.

Toxicity to reproduction assessment

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

- Ethanol
  No toxicity to reproduction Evidence suggests the substance is not a reproductive toxin in animals.

Assessment teratogenicity

- Methomyl
  Animal testing showed no developmental toxicity.

- Ethanol
  Evidence suggests the substance is not a developmental toxin in animals.

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

static test / LC50 / 96 h / Lepomis macrochirus (Bluegill sunfish): 5,1 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 invertebrates

EC50 / 48 h / Daphnia (water flea): 0,096 mg/l
Method: OECD Test Guideline 202
(Data on the product itself) Information source: Internal study report

Toxicity to other organisms

LD50 / 48 h / Apis mellifera (bees): 1.06 µg/L
Method: OEPP/EPPO Test Guideline 170
Oral (Data on the product itself) Information source: Internal study report

LD50 / 48 h / Apis mellifera (bees): 0.90 µg/L
Method: OEPP/EPPO Test Guideline 170
Contact (Data on the product itself) Information source: 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, there is no reasonable expectation of any movement of the product from the top soil layer.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment
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 water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).
Contaminated packaging	:	Do not re-use empty containers. If recycling is not practicable, dispose of in compliance with local regulations.

SECTION 14: Transport information

ADR

14.1.	UN number:	2991
14.2.	UN proper shipping name:	CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE
14.3.	Transport hazard class(es):	6.1
14.4.	Packing group:	I
14.5.	Environmental hazards:	Environmentally hazardous

14.6. Special precautions for user:

Tunnel restriction code: (C/E)

IATA_C

14.1. UN number: 2991
14.2. UN proper shipping name: Carbamate pesticide, liquid, toxic, flammable
14.3. Transport hazard class(es): 6.1
14.4. Packing group: I
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: 2991
14.2. UN proper shipping name: Carbamate pesticide, liquid, toxic, flammable
14.3. Transport hazard class(es): 6.1
14.4. Packing group: I
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

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.
FLAMMABLE LIQUIDS
Quantity: 5 000 t, 50 000 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

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.

This product is in full compliance according to REACH regulation 1907/2006/EC.

SECTION 16: Other information

Text of R-phrases mentioned in Section 3

R11	Highly flammable.
R23	Toxic by inhalation.
R28	Very toxic if swallowed.
R36	Irritating to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.
R68	Possible risk of irreversible effects.

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

H225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
H319	Causes serious eye irritation.
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.

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

Further information
Take notice of the directions of use on the label.
Before use read DuPont's safety information.

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.