TANOS®

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

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

1.1. Product identifier

Product name : TANOS®

Synonyms : B10480592
DPX-KP481 WG

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

Use of the Substance/Mixture : Fungicide

1.3. Details of the supplier of the safety data sheet

Company : DuPont de Nemours South Africa (Pty) Ltd
34 Whiteley Road
Block B, 1st Floor
Melrose Arch
South Africa

Telephone : +27 (0) 11 218 8600

Telefax : +27 (0) 11 218 8664

E-mail address : SDS@Corteva.com

1.4. Emergency telephone number

Emergency telephone number : 0-800-983-611 (Toll free in-country) or +(44)-870-8200418 (CHEMTREC)
: +27 (0) 83 123 3911
: 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 4	H302: Harmful if swallowed.
Skin sensitisation, Category 1B	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.(Blood, Eyes, thymus)
Short-term (acute) aquatic hazard,	H400: Very toxic to aquatic life.

Category 1 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)

Warning

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure. (Blood, Eyes, thymus)
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
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.

P201	Obtain special instructions before use.
P260	Do not breathe mist or vapours.
P280	Wear protective gloves/ protective clothing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P405	Store locked up.
P420	Store away from other materials.
P501	Dispose of contents/ container to an approved incineration plant.

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).

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
Famoxadone (CAS-No.131807-57-3)		
	STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	25 %
Cymoxanil (CAS-No.57966-95-7) (EC-No.261-043-0)		
	Acute Tox. 4; H302 Skin Sens. 1; H317 Repr. 2; H361fd STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	25 %
Lignosulfonic acid, sodium salt, sulfomethylated (CAS-No.68512-34-5)		
	Eye Irrit. 2; H319	>= 20 - <= 25 %
Block copolymer of polyethylene glycol and polypropylene glycol (CAS-No.106392-12-5)		
	Acute Tox. 4; H332	>= 1 - <= 5 %
Fumaric acid (CAS-No.110-17-8) (EC-No.203-743-0)		
	Eye Irrit. 2; H319	>= 1 - <= 5 %
Sodium dioctyl sulfosuccinate (CAS-No.577-11-7) (EC-No.209-406-4)		
	Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - <= 5 %

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.
Inhalation	:	Move to fresh air. Consult a physician after significant exposure. Artificial respiration and/or oxygen may be necessary.
Skin contact	:	Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.
Eye contact	:	If easy to do, remove contact lens, if worn. Hold eye open and rinse slowly and gently with water for 15-20 minutes. If eye irritation persists, consult a specialist.
Ingestion	:	Obtain medical attention. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is conscious: Rinse mouth with water.

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

Symptoms	:	Skin contact may provoke the following symptoms:, Erythema, Dermatitis, Sensitisation, Irritation
	:	Ingestion may provoke the following symptoms:, Nausea, Vomiting, Diarrhoea, Gastrointestinal discomfort
	:	Inhalation may provoke the following symptoms:, Asthmatic appearance, Irritation, sensitising effects
	:	Central nervous system depression, Headache, Lack of coordination, Disorientation, More severe effects if alcohol is consumed.

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

Treatment	:	Treat symptomatically.

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 (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	:	Control access to area. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing dust. 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 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. 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 according to our recommendations. Use only clean equipment. Avoid contact with skin, eyes and clothing. Do not breathe dust or spray mist. Wear personal protective equipment. For personal protection see section 8. 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. Provide appropriate exhaust ventilation at places where dust is formed.

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 away from food, drink and animal feedingstuffs. Store in a place accessible by authorized persons only. Store in original container. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.
Advice on common storage	:	No special restrictions on storage with other products.
Storage temperature	:	> 0 - < 30 °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. 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: Long sleeve gloves 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. 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 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Backpack / knapsack sprayer: Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).

Mechanical automatized spray application in closed tunnel: No personal body protection normally required during the application. However, gloves and a long sleeved shirt shall be worn when handling the treated plants after the application. Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus.

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. For environmental protection remove and wash all contaminated protective equipment before re-use. 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. Wash hands before breaks and at the end of workday.
Respiratory protection	:	Manufacturing and processing work: Half mask with a particle filter FFP1 (EN149) Mixer and loaders must wear: Half mask with a particle filter FFP1 (EN149)

Spray application - outdoor: Tractor / sprayer with hood: No personal respiratory protective equipment normally required.

Tractor / sprayer without hood: Half mask with a particle filter P2 (EN 143)

Backpack / knapsack sprayer: Half mask with a particle filter P2 (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	: solid
Colour	: brown
Odour	: sweet
Odour Threshold	: not determined
pH	: ca. 6 at 10 g/l (20 °C)
Melting point	: no data available
Boiling point/boiling range	: Not available for this mixture.
Flash point	: Not applicable
Self-Accelerating decomposition temperature (SADT)	: no data available
Flammability (solid, gas)	: Does not sustain combustion.
Ignition temperature	: > 360 °C
Thermal decomposition	: Not available for this mixture.
Oxidizing properties	: Oxidizing properties (solids)
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	: no data available

Relative density	: Not available for this mixture.
Bulk density	: 600 kg/m3
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: Not applicable
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	: no data available
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	: 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	: Decomposes slowly on exposure to water. To avoid thermal decomposition, do not overheat. 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	: Hydrogen cyanide (hydrocyanic acid)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

LD50 / Rat male : 1 732 mg/kg
Method: OECD Test Guideline 401
(Data on the product itself) Information source: Internal study report

LD50 / Rat female : 566 mg/kg
Method: OECD Test Guideline 401
(Data on the product itself) Information source: Internal study report

Acute inhalation toxicity

LC50 / 4 h Rat : > 5,1 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

Respiratory or skin sensitisation

Guinea pig Modified Buehler Test
Result: Causes sensitisation.
Method: OECD Test Guideline 406
(Data on the product itself) Information source: Internal study report

Repeated dose toxicity

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

  Oral - feed Dog
  eye effects

  Oral - feed Rat
  Reduced body weight gain, Organ weight changes, Increased liver enzyme levels in serum, Liver effects, Red blood cell destruction causing abnormal decrease in number of red blood cells (anaemia)

  Dermal Rat
  Increased liver weight, Increased liver enzyme levels in serum

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

  Oral multiple species
  altered blood chemistry, No effect to neurotoxicity.

  Oral - feed Dog
  Exposure time: 90 d
  Thymus effects

- Block copolymer of polyethylene glycol and polypropylene glycol
  Ingestion Dog
  Exposure time: 6 Months
  NOAEL: > 100 mg/kg
  No toxicologically significant effects were found.

Mutagenicity assessment

- Famoxadone
  Animal testing did not show any mutagenic effects. Test on bacterial cultures did not show mutagenic effects. Tests on mammalian cell cultures showed mutagenic effects.

- Cymoxanil
  Animal testing did not show any mutagenic effects. Evidence suggests this substance does not cause genetic damage in cultured bacterial cells. Tests on mammalian cell cultures showed mutagenic effects.

- Sodium dioctyl sulfosuccinate
  Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Overall weight of evidence indicates that the substance is not mutagenic. Information given is based on data obtained from similar substances.

Carcinogenicity assessment

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

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

- Block copolymer of polyethylene glycol and polypropylene glycol
  Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects. Information given is based on data obtained from similar substances.

- Sodium dioctyl sulfosuccinate
  Weight of evidence does not support classification as a carcinogen Overall weight of evidence indicates that the substance is not carcinogenic.

Toxicity to reproduction assessment

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

- Cymoxanil
  Suspected human reproductive toxicant Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

- Block copolymer of polyethylene glycol and polypropylene glycol
  No toxicity to reproduction Animal testing showed no reproductive toxicity. No effects on or via lactation Information given is based on data obtained from similar substances.

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

Assessment teratogenicity

- Famoxadone
  Animal testing showed no developmental toxicity.

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

- Block copolymer of polyethylene glycol and polypropylene glycol
  Animal testing showed no developmental toxicity. Information given is based on data obtained from similar substances.

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

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish

flow-through test / LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): 0,0287 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): 4,04 mg/l
Method: Directive 67/548/EEC, Annex V, C.3.
The toxicological data has been taken from products of similar composition. Information source: Internal study report

Toxicity to aquatic invertebrates

flow-through test / EC50 / 48 h / Daphnia magna (Water flea): 0,055 mg/l
Method: OECD Test Guideline 202
(Data on the product itself) Information source: Internal study report

Chronic toxicity to fish

- Famoxadone
  NOEC / 90 d / Oncorhynchus mykiss (rainbow trout): 0,0014 mg/l
  Method: OECD Test Guideline 210
  Information source: Internal study report

Chronic toxicity to aquatic Invertebrates

- Famoxadone
  flow-through test / NOEC / 21 d / Daphnia magna (Water flea): 0,0037 mg/l
  Method: OECD Test Guideline 202
  Information source: Internal study report

- Cymoxanil
  NOEC / 21 d / Daphnia magna (Water flea): 0,067 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.

12.3. Bioaccumulative potential

Bioaccumulation

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

12.4. Mobility in soil

Mobility in soil

The product is not expected to be mobile in soils.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment
This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). / This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.6. Other adverse effects

Additional ecological information

No other ecological effects to be specially mentioned

See product label for additional application instructions relating to environmental precautions.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent

authorities. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Do not re-use empty containers.

SECTION 14: Transport information

ADR

14.1.	UN number:	3077
14.2.	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Famoxadone, Cymoxanil)
14.3.	Transport hazard class(es):	9
14.4.	Packing group:	III
14.5.	Environmental hazards:	Environmentally hazardous

14.6. Special precautions for user:
Tunnel restriction code: (-)

IATA_C

14.1.	UN number:	3077
14.2.	UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Famoxadone, Cymoxanil)
14.3.	Transport hazard class(es):	9
14.4.	Packing group:	III
14.5.	Environmental hazards :	Environmentally hazardous

14.6. Special precautions for user:
DuPont internal recommendations and transport guidance: ICAO / IATA cargo aircraft only

IMDG

14.1.	UN number:	3077
14.2.	UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Famoxadone, Cymoxanil)
14.3.	Transport hazard class(es):	9
14.4.	Packing group:	III
14.5.	Environmental hazards :	Marine pollutant

14.6. Special precautions for user:
No 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.
Not applicable

Other regulations :

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

SECTION 16: Other information

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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

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

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.