

Version 2.0 Revision Date 09.10.2013

Ref. 130000131242

This Safety Data Sheet adheres to the standards and regulatory requirements of Great Britain 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	: GROPPER [®] SX
Synonyms	: C12727703 DPX-T6376 20SG

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

Use of the Substance/Mixture Herbicide

1.3. Details of the supplier of the safety data sheet

Company	:	Du Pont (UK) Limited Wedgwood Way Stevenage, Herts. SG1 4QN United Kingdom
Telephone	:	+44 (0) 1438 734 000
E-mail address	:	sds-support@che.dupont.com
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1.4. Emergency telephone number

Emergency telephone number : +44 (0) 8456 006 640

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 1	H410: Very toxic to aquatic life with long lasting effects.
Dangerous for the environment	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements



Warning



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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.,
P391 P501	Collect spillage. Dispose of contents/ container to an approved waste disposal plant.
SP1	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 nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Registration number	Classification according to Directive 67/548/EEC	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration
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Metsulfuron methyl (CAS-No.74223-64-6)

N;R50/53	Aquatic Acute 1; H400	20 %
	Aquatic Chronic 1; H410	

Sodium carbonate (CAS-No.497-19-8) (EC-No.207-838-8)

01-2119485498-19	Xi;R36	Eye Irrit. 2; H319	>= 5 - < 10 %

Lignosulfonic acid, sodium salt, sulfomethylated (CAS-No.68512-34-5)

Xi;R36	Eye Irrit. 2; H319	>= 5 - < 10 %

The above products are REACH compliant; Registration number(s) may not be provided because substance(s) are exempted, not yet registered under REACH or are registered under another regulatory process (biocide uses, plant protection products), etc.

For the full text of the 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 firs	t aid measures
General advice	 Never give anything by mouth to an unconscious person. For specialist advice physicians should contact the National Poisons Information Service: Tel. 111
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		for England and Wales and Tel. 08454 24 24 24 for Scotland.
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 sympton	ms a	and effects, both acute and delayed
Symptoms	:	No cases of human intoxication are known and the symptoms of experimental intoxication are not known.
4.3. Indication of any immed	liate	e medical attention and special treatment needed
Treatment	:	Treat symptomatically.
TION 5: Firefighting measure	es	
5.1. Extinguishing media		
5.1. Extinguishing mediaSuitable extinguishing media	:	Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
		Water spray, Foam, Dry chemical, Carbon dioxide (CO2) High volume water jet, (contamination risk)
Suitable extinguishing media Extinguishing media which shall not be used for safety	:	High volume water jet, (contamination risk)
Suitable extinguishing media Extinguishing media which shall not be used for safety reasons	: fro	High volume water jet, (contamination risk)
Suitable extinguishing media Extinguishing media which shall not be used for safety reasons 5.2. Special hazards arising Specific hazards during	: fro	High volume water jet, (contamination risk) m the substance or mixture Hazardous decomposition products formed under fire conditions. Carbon
Suitable extinguishing media Extinguishing media which shall not be used for safety reasons 5.2. Special hazards arising Specific hazards during firefighting	: froi :	High volume water jet, (contamination risk) m the substance or mixture Hazardous decomposition products formed under fire conditions. Carbon
Suitable extinguishing media Extinguishing media which shall not be used for safety reasons 5.2. Special hazards arising Specific hazards during firefighting 5.3. Advice for firefighters Special protective equipment	: fron :	High volume water jet, (contamination risk) m the substance or mixture Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO2) nitrogen oxides (NOx) Wear full protective clothing and self-contained breathing apparatus.
Suitable extinguishing media Extinguishing media which shall not be used for safety reasons 5.2. Special hazards arising Specific hazards during firefighting 5.3. Advice for firefighters Special protective equipment for firefighters	: fron :	 High volume water jet, (contamination risk) m the substance or mixture Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO2) nitrogen oxides (NOx) Wear full protective clothing and self-contained breathing apparatus. Prevent fire extinguishing water from contaminating surface water or the groun water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire



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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). If spill area is on ground near valuable plants or trees, remove 5 cm of top soil after initial clean-up.
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	: Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.
	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 store	age, including any incompatibilities
Requirements for storage areas and containers	Store in a place accessible by authorized persons only. Store in original container. Keep in properly labelled containers. Keep containers tightly closed
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		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)		

@UF

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.

Components with workplace control parameters

Туре	Control	Update	Basis	Remarks
Form of exposure	parameters			

Sucrose (CAS-No. 57-50-1)

TWA	10 mg/m3	2007	EH40 WEL
STEL	20 mg/m3	2007	EH40 WEL

8.2. Exposure controls

Engineering measures	:	Ensure adequate ventilation, especially in confined areas. Provide for appropriate exhaust ventilation and dust collection at machinery.
		Contains no substances with occupational exposure limit values.
Eye protection	:	Safety glasses with side-shields conforming to EN166
Hand protection	:	Material: Nitrile rubber Glove thickness: 0.3 mm Glove length: Gauntlets Protection index: Class 6 Wearing time: > 480 min 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 shorter than 35 cm long shall be worn under the combination sleeve. Before removing gloves clean them with soap and water.
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Skin and body protection	:	Manufacturing and processing work: Full protective clothing Type 5 (EN 13982-2)
		Mixer and loaders must wear: Full protective clothing Type 5 (EN 13982-2) Rubber apron 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: Low application (horticulture, field crops): Full protective clothing Type 4 (EN 14605) Nitrile rubber boots (EN 13832-3 / EN ISO 20345).
		Backpack / knapsack sprayer: Low application (horticulture, field crops): 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.
		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.
		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).
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
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required.

Tractor / sprayer without hood: Low application (horticulture, field crops): Half mask with a particle filter FFP1 (EN149)

Backpack / knapsack sprayer: Low application (horticulture, field crops): Half mask with a particle filter FFP1 (EN149)

Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1. Informatior	on basic p	physical and	chemical	properties
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Form	: solid, granular
Colour	: brown
Odour	: mild
Odour Threshold	: not determined
рН	: 9.2 at 10 g/l
Melting point/range	: Not available for this mixture.
Boiling point/boiling range	: not applicable
Flash point	: not applicable
Flammability (solid, gas)	: Does not sustain combustion.
Thermal decomposition	: Not available for this mixture.
Auto-ignition temperature	: Not available for this mixture.
Oxidizing properties	: The product is not oxidizing.
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.
Relative density	: Not available for this mixture.
Bulk density	: 660 kg/m3 , packed
Water solubility	: soluble

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Partition coefficient: n- octanol/water	: not applicable
Viscosity, dynamic	: no data available
Relative vapour density	: Not available for this mixture.
Evaporation rate	: Not available for this mixture.
9.2. Other information	
Physchem./other information	: No other data to be specially mentioned.
SECTION 10: Stability and reactiv	/ity
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	: Processing temperature : > 140 °C Decomposes on heating. 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	: Sulphur oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

LD50 / rat : > 5,000 mg/kg Method: Fixed Dose Method (Data on the product itself) Information source: Internal study report

Acute inhalation toxicity

• Metsulfuron methyl LC50 / 4 h rat : > 5.3 mg/l

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



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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 Maximisation 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

Repeated dose toxicity

 Metsulfuron methyl Oral rat Exposure time: 90 d Reduced body weight gain, Liver effects

Oral rat Reduced body weight gain, Organ weight changes, Liver

Dermal rabbit Skin irritation

Mutagenicity assessment

 Metsulfuron methyl Did not show mutagenic effects in animal experiments. Did not cause genetic damage in cultured bacterial cells. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.

Carcinogenicity assessment

Metsulfuron methyl
 Did not show carcinogenic effects in animal experiments.

Toxicity to reproduction assessment

• Metsulfuron methyl Animal testing did not show any effects on fertility.

Assessment teratogenicity

• Metsulfuron methyl Animal testing showed no developmental toxicity.

STOT - single exposure



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The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

The mixture does not have properties associated with aspiration hazard potential.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish

static test / LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): > 625 mg/l Method: OECD Test Guideline 203 (Data on the product itself) Information source: Internal study report

Toxicity to aquatic plants

ErC50 / 72 h / Pseudokirchneriella subcapitata: > 1.6 mg/l Method: OECD Test Guideline 201 (Data on the product itself) Information source: Internal study report

EC50 / 14 d / Lemna gibba (duckweed): 0.00235 mg/l Method: ASTM E 1415-91 (Data on the product itself) Information source: Internal study report

Toxicity to aquatic invertebrates

static test / EC50 / 48 h / Daphnia magna (Water flea): > 625 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): 113.7 µg/b Method: OECD Test Guideline 213 Oral (Data on the product itself) Information source: Internal study report

LD50 / 48 h / Apis mellifera (bees): > 100 µg/b Method: OECD Test Guideline 214 Contact (Data on the product itself) Information source: Internal study report

Chronic toxicity to fish

 Metsulfuron methyl NOEC / 21 h / Oncorhynchus mykiss (rainbow trout): 68 mg/l

Chronic toxicity to aquatic Invertebrates

 Metsulfuron methyl NOEC / 21 h / Daphnia magna (Water flea): 100 mg/l

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12.2. Persistence and degradability

Biodegradability

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

• Metsulfuron methyl According to the results of tests of biodegradability this product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation

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

 Metsulfuron methyl Species: Lepomis macrochirus (Bluegill sunfish) / Exposure time: 28 d Bioconcentration factor (BCF): 2.0 Method: OECD Test Guideline 305 Does not bioaccumulate.

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 nor toxic (PBT). / This mixture contains no substance considered to be very persistent nor 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.

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 chemica used container.	
Contaminated packaging	Do not re-use empty containers.	



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SECTIO	ΟN	14: Transport information			
AC	R				
		UN number:	30	77	
				VIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,	
14	.∠.	UN proper shipping name:			
	~			D.S. (Metsulfuron methyl)	
		Transport hazard class(es):	9		
		Packing group:			
		Environmental hazards:	En	vironmentally hazardous	
14	.6.	Special precautions for user:			
		Tunnel restriction code:	(E)		
IA.	TA_	С			
14	.1.	UN number:	30	77	
		UN proper shipping name:	Fr	vironmentally hazardous substance, solid, n.o.s. (Metsulfuron	
		ent proper empping name.		ethyl)	
1/	2	Transport hazard class(es):	9	sury)	
			9 		
		Packing group:			
		Environmental hazards :	En	vironmentally hazardous	
14	.6.	Special precautions for user:			
		DuPont internal recommendations	s and tran	sport guidance: ICAO / IATA cargo aircraft only	
	DG				
		UN number:	30		
14	.2.	UN proper shipping name:		VIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,	
			N.(D.S. (Metsulfuron methyl)	
14	.3.	Transport hazard class(es):	9		
14	.4.	Packing group:			
		Environmental hazards :	Ma	rine pollutant	
14	.6.	Special precautions for user:		·	
		no data available			
1/	7	Transport in bulk according to	Anney II /	of MARPOL 73/78 and the IBC Code	
14	•••	not applicable			
OFOTI	~~				
SECH	JN	15: Regulatory information			
15	5.1.	Safety, health and environmenta	al regulat	ions/legislation specific for the substance or mixture	
		-	-		
Ot	her	regulations : The pr	oduct is c	lassified as dangerous in accordance with Regulation (EC) No.	
				note of Dir 94/33/EC on the protection of young people at work.	
				92/85/EEC on the safety and health at work of pregnant	
				ote of Directive 98/24/EC on the protection of the health and	
				s from the risks related to chemical agents at work. Take note of	
				EC on the control of major-accident hazards involving	
				tances. Take note of Directive 2000/39/EC establishing a first	
		list of I	ndicative	occupational exposure limit values.	
45	~				
15	.2.	Chemical Safety Assessment			
•	~				
	A Chemical Safety Assessment is not required for this/these products				
	The mixture is registered as a plant protection product under Regulation (EC) No. 1107/2009.				
Re	efer	to the label for exposure assessm	ent inform	ation.	
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SECTION 16: Other information

Text of R-phrases mentioned in Section 3

R36	Irritating to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.

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

H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Other information professional use

Abbreviations and acronyms

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 observable 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	
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. [®] Registered trademark of E.I. du Pont de Nemours and Company

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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.