

Version 4.0 (replaces: Version 3.0) Revision Date 06.05.2014

Ref. 13000000605

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 comp	any/undertaking

1.1. Product identifier

Product name : LEXUS MILLENIUM[®] Synonyms : B10474276 DPX-KV954 50WG

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

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

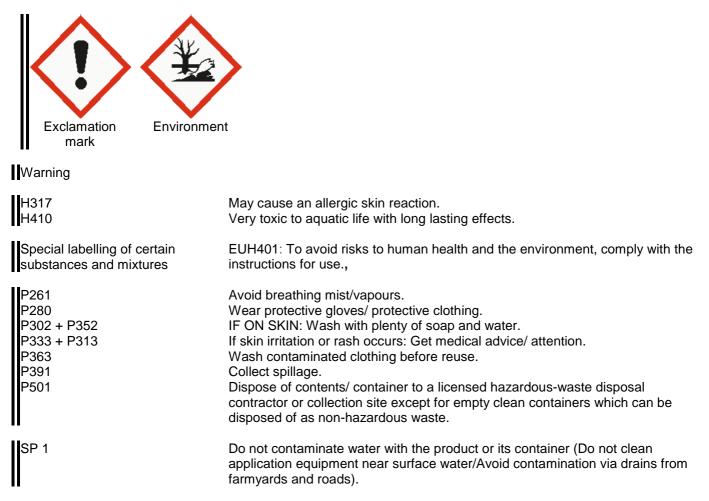
Skin sensitisation, Category 1B	H317: May cause an allergic skin reaction.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 1	H410: Very toxic to aquatic life with long lasting effects.
Dangerous for the environment Irritant	R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R43: May cause sensitisation by skin contact.

2.2. Label elements



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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	Classification according to Regulation (EU) 1272/2008	Concentration
	Directive 67/548/EEC	(CLP)	

Thifensulfuron methyl (CAS-No.79277-27-3)

	N;R50/53	Aquatic Acute 1; H400	40 %
		Aquatic Chronic 1; H410	



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 R41 Eye H compliant; Registration numbed under REACH or are registe s mentioned in this Section, see ents mentioned in this Section, easures Never give anything by mouphysicians should contact th for England and Wales and Move to fresh air. Consult a respiration and/or oxygen m Take off contaminated cloth with soap and plenty of wate see a physician. Wash contact 	ed under another regul Section 16. see Section 16. h to an unconscious pe e National Poisons Info fel. 08454 24 24 24 for ohysician after significa ay be necessary. ng and shoes immedia r. In the case of skin irr	atory process (biocide us erson. For specialist advic ormation Service: Tel. 111 r Scotland. ant exposure. Artificial tely. Wash off immediatel
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with soap and plenty of wate see a physician. Wash contIf easy to do, remove contact	r. In the case of skin irr	
specialist.	t lens, if worn. Hold eye inutes. If eye irritation	
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.		
s and effects, both acute and	delayed	
No cases of human intoxica intoxication are not known.	on are known and the	symptoms of experimenta
ate medical attention and spe	ial treatment needed	
: Treat symptomatically.		
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: at	water. and effects, both acute and of No cases of human intoxicati intoxication are not known. e medical attention and spec	water. and effects, both acute and delayed No cases of human intoxication are known and the intoxication are not known. e medical attention and special treatment needed



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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	: In the event of fire, wear self-contained breathing apparatus.
Further information	: Prevent fire extinguishing water from contaminating surface water or the grou 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) Cool containers / tanks with water spray. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.
TION 6: Accidental release n	neasures
CTION 6: Accidental release n 6.1. Personal precautions, p	neasures rotective equipment and emergency procedures
	rotective equipment and emergency procedures : Control access to area. Keep people away from and upwind of spill/leak. Avo
6.1. Personal precautions, p	 rotective equipment and emergency procedures Control access to area. Keep people away from and upwind of spill/leak. Avo dust formation. Avoid breathing dust. Use personal protective equipment. Rei to protective measures listed in sections 7 and 8.
6.1. Personal precautions, p Personal precautions	 rotective equipment and emergency procedures Control access to area. Keep people away from and upwind of spill/leak. Avo dust formation. Avoid breathing dust. Use personal protective equipment. Re to protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Use appropriate contained avoid environmental contamination. Do not flush into surface water or sanitar sewer system. Do not allow material to contaminate ground water system. Lo authorities should be advised if significant spillages cannot be contained. If the
 6.1. Personal precautions, p Personal precautions 6.2. Environmental precautions Environmental precautions 	 rotective equipment and emergency procedures Control access to area. Keep people away from and upwind of spill/leak. Avo dust formation. Avoid breathing dust. Use personal protective equipment. Reito protective measures listed in sections 7 and 8. Prevent further leakage or spillage if safe to do so. Use appropriate container avoid environmental contamination. Do not flush into surface water or sanitar sewer system. Do not allow material to contaminate ground water system. Lo authorities should be advised if significant spillages cannot be contained. If th spill area is porous, the contaminated material must be collected for subseque treatment or disposal. If the product contaminates rivers and lakes or drains
 6.1. Personal precautions, p Personal precautions 6.2. Environmental precautions Environmental precautions 	 rotective equipment and emergency procedures Control access to area. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing dust. Use personal protective equipment. Reto protective measures listed in sections 7 and 8. ons Prevent further leakage or spillage if safe to do so. Use appropriate contained avoid environmental contamination. Do not flush into surface water or sanitar sewer system. Do not allow material to contaminate ground water system. Lo authorities should be advised if significant spillages cannot be contained. If the spill area is porous, the contaminated material must be collected for subseque treatment or disposal. If the product contaminates rivers and lakes or drains inform respective authorities. for containment and cleaning up Clean-up methods - small spillage Sweep up or vacuum up spillage and colle in suitable container for disposal. Clean-up methods - large spillage Avoid dust formation. Knock down dust wir water spray jet. Contain spillage, pick up with an electrically protected vacuut cleaner or by wet-brushing and transfer to a container for disposal according local regulations (see section 13).
 6.1. Personal precautions, p Personal precautions 6.2. Environmental precaution Environmental precautions 6.3. Methods and materials f 	 rotective equipment and emergency procedures Control access to area. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing dust. Use personal protective equipment. Reto protective measures listed in sections 7 and 8. ons Prevent further leakage or spillage if safe to do so. Use appropriate contained avoid environmental contamination. Do not flush into surface water or sanitar sewer system. Do not allow material to contaminate ground water system. Lo authorities should be advised if significant spillages cannot be contained. If the spill area is porous, the contaminated material must be collected for subseque treatment or disposal. If the product contaminates rivers and lakes or drains inform respective authorities. for containment and cleaning up Clean-up methods - small spillage Sweep up or vacuum up spillage and coller in suitable container for disposal. Clean-up methods - large spillage Avoid dust formation. Knock down dust wit water spray jet. Contain spillage, pick up with an electrically protected vacuur cleaner or by wet-brushing and transfer to a container for disposal according local regulations (see section 13). If spill area is on ground near valuable plants or trees, remove 5 cm of top so



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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 stor	ra	ge, including any incompatibilities

Requirements for storage areas and containers
 Store in a place accessible by authorized persons only. Store in original containers 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 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.

Components with workplace control parameters

Туре	Control	Update	Basis	Remarks
Form of exposure	parameters			

Kaolin (CAS-No. 1332-58-7)

TWA	2 mg/m3	2007	EH40 WEL	
Respirable dust.				

Methanol (CAS-No. 67-56-1)

TWA	266 mg/m3	2007	EH40 WEL	
	200 ppm			



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STEL	333 mg/m3 250 ppm	2007	EH40 WEL	
SKIN_DES		2007	EH40 WEL	Can be absorbed through skin.
SKIN_DES		12 2009	EU ELV	Can be absorbed through skin.
TWA	260 mg/m3 200 ppm	12 2009	EU ELV	Indicative

8.2. Exposure controls

Engineering measures	: Ensure adequate ventilation, especially in confined areas. Provide for appropriate exhaust ventilation and dust collection at machinery. Use sufficient ventilation to keep employee exposure below recommended limits.
Eye protection	: Safety glasses with side-shields conforming to EN166
Hand protection	: Material: Nitrile rubber Glove thickness: 0.3 mm Glove length: Standard glove type. Protection index: Class 3 Wearing time: > 480 min 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 shorter than 35 cm long shall be worn under 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: Backpack / knapsack sprayer: Nitrile rubber boots (EN 13832-3 / EN ISO 20345). Low application (horticulture, field crops): Middle- height application: Full protective clothing Type 4 (EN 14605)
	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
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	should be robust to maintain the integrity and barrier in use. The permeation resistance of the fabric must be verified independently of the « type » protectic recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure.
	When exceptional circumstances require an access to the treated area before 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).
Protective measures	: All Personal Protection Equipment should be checked before use to confirm it compatible with the chemicals you are handling. The type of protective equipment must be selected according to the concentra and amount of the dangerous substance at the specific workplace. All chemical protective clothing should be visually inspected prior to use. Clothing and glove should be replaced in case of chemical or physical damage or if contaminated Only protected handlers may be in the area during application.
	The type of protective equipment must be selected according to the concentra and amount of the dangerous substance at the specific workplace. All chemica protective clothing should be visually inspected prior to use. Clothing and glove 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. Regula cleaning of equipment, work area and clothing. Keep working clothes separate Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks and immediately after handling the product. Wh using do not eat, drink or smoke. For environmental protection remove and wa 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.
Respiratory protection	: Manufacturing and processing work: Half mask with a particle filter FFP1 (EN1
	Mixer and loaders must wear: Half mask with a particle filter FFP1 (EN149)
	Spray application - outdoor: Tractor / sprayer with hood: No personal respirato protective equipment normally required.
	Tractor / sprayer without hood: Backpack / knapsack sprayer: Low application (horticulture, field crops): Middle-height application: Half mask with a particle fi P1 (EN 143).
	Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.
CTION 9: Physical and che 9.1. Information on basic	emical properties physical and chemical properties
Form	: solid
Colour	: light brown
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Odour	: slight
рН	: 5.6 at 10 g/l (20 °C), Method: CIPAC MT 75
Melting point/range	: Not available for this mixture.
Flash point	: not applicable
Flammability (solid, gas)	: Does not sustain combustion.
Thermal decomposition	: Not available for this mixture.
Auto-ignition temperature	: not auto-flammable
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	: 790 kg/m3 , packed
Water solubility	: dispersible
Viscosity, kinematic	: not applicable
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 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	: To avoid thermal decomposition, do not overheat. Under severe dusting conditions, this material may form explosive mixtures in air.
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10.5. Incompatible materials : No materials to be especially mentioned.	
10.6. Hazardous : Sulphur oxides decomposition products : Sulphur oxides	
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute oral toxicity	
LD50 / rat : > 5,000 mg/kg Method: OECD Test Guideline 401 (Data on the product itself) Information source: Internal study report	
Acute inhalation toxicity	
Thifensulfuron methyl LC50 / 4 h rat : > 7.9 mg/l	
 Flupyrsulfuron-methyl-sodium LC50 / 4 h rat : > 5.8 mg/l 	
Acute dermal toxicity	
LD50 / rat : > 2,000 mg/kg Method: OECD Test Guideline 402 (Data on the product itself) Information source: Internal study report	
Skin irritation	
rabbit Result: No skin irritation Method: OECD Test Guideline 404 (Data on the product itself) Information source: Internal study report	
Eye irritation	
rabbit Result: No eye irritation Method: OECD Test Guideline 405 (Data on the product itself) Information source: Internal study report	
Sensitisation	
guinea pig Modified Buehler Test Result: Causes sensitisation. Method: OECD Test Guideline 406 (Data on the product itself) Information source: Internal study report	
Repeated dose toxicity	
Thifensulfuron methyl The following effects occurred at levels of exposure that significantly exceed those exped	cted under labeled
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usage conditions.

Oral - feed multiple species Reduced body weight gain

 Flupyrsulfuron-methyl-sodium Oral rat
 Exposure time: 90 d
 NOAEL: 2,000 mg/kg
 Organ weight changes, Liver effects, Reduced body weight gain

Mutagenicity assessment

- Thifensulfuron methyl Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Flupyrsulfuron-methyl-sodium Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity assessment

- Thifensulfuron methyl Animal testing did not show any carcinogenic effects.
- Flupyrsulfuron-methyl-sodium Possible human carcinogen

Toxicity to reproduction assessment

- Thifensulfuron methyl
 No toxicity to reproduction
- Flupyrsulfuron-methyl-sodium No toxicity to reproduction

Assessment teratogenicity

- Thifensulfuron methyl Did not show teratogenic effects in animal experiments. Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
- Flupyrsulfuron-methyl-sodium No toxicity to reproduction

STOT - single exposure

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

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

SECTION 12: Ecological information

12.1. Toxicity

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Toxicity to fish

static test / LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): > 100 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): 0.038 mg/l Method: Directive 67/548/EEC, Annex V, C.3. (Data on the product itself) Information source: Internal study report

EbC50 / 14 d / Lemna gibba (duckweed): 0.0027 mg/l (Data on the product itself) Information source: Internal study report Toxicity to aquatic invertebrates

EC50 / 48 h / Daphnia magna (Water flea): > 100 mg/l Method: OECD Test Guideline 202 (Data on the product itself) Information source: Internal study report

Chronic toxicity to fish

- Thifensulfuron methyl NOEC / 62 d / Oncorhynchus mykiss (rainbow trout): 10.6 mg/l
- Flupyrsulfuron-methyl-sodium Early Life-Stage / NOEC / 90 d / Oncorhynchus mykiss (rainbow trout): 57 mg/l

Chronic toxicity to aquatic Invertebrates

- Thifensulfuron methyl NOEC / 28 d / Americamysis bahia (mysid shrimp): 7.93 mg/l
- Flupyrsulfuron-methyl-sodium NOEC / 21 d / Daphnia magna (Water flea): 16 mg/l

12.2. Persistence and degradability

Biodegradability

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

- Thifensulfuron methyl According to the results of tests of biodegradability this product is not readily biodegradable.
- Flupyrsulfuron-methyl-sodium According to the results of tests of biodegradability this product is not readily biodegradable.



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12.3. Bioaccumulative potential

Bioaccumulation

Bioaccumulation is unlikely.

• Thifensulfuron methyl 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods		
	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. (Thifensulfuron-methyl, flupyrsulfuron-methyl-sodium)	
14.3. Transport hazard class(es):	9	
14.4. Packing group:	III	
14.5. Environmental hazards:	For further information see Section 12.	
14.6. Special precautions for user	•	
Tunnel restriction code:	(E)	
IATA_C		
14.1. UN number:	3077	
14.2. UN proper shipping name:	Environmentally hazardous substance, solid, n.o.s.	
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SECTION 15: Regulatory information

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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 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 Dir 92/85/EEC on the safety and health at work of pregnant workers.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.
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15.2. Chemical Safety Assessment

Taxt of D phrases mentioned in Section 2

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. Refer to the label for exposure assessment information.

SECTION 16: Other information

Text of R-phrases mentioned in Section 3	
R38	Irritating to skin.
R41	Risk of serious damage 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.	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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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
IÁTA 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

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Significant change from previous version is denoted with a double bar.

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