



ALLY ULTRA

Version 2.1 (replaces: Version 2.0)
Revision Date 23.11.2015

Ref. 130000117719

This Safety Data Sheet adheres to the standards and regulatory requirements of the Republic of Ireland and may not meet the regulatory requirements of other countries.

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

1.1. Product identifier

Product name : ALLY ULTRA
Synonyms : B13062402
DPX-RXR49

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
4th Floor, Kings Court, London Road
Stevenage, Herts.
SG1 2NG
United Kingdom

Telephone : +44 (0) 1438 734 000

E-mail address : sds-support@che.dupont.com

1.4. Emergency telephone number

Emergency telephone number : +(353)-19014670 (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

Eye irritation, Category 2 H319: Causes serious eye irritation.
Chronic aquatic toxicity,
Category 1 H410: Very toxic to aquatic life with long lasting effects.

2.2. Label elements



Warning

H319 Causes serious eye irritation.
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.,

P101 If medical advice is needed, have product container or label at hand.



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P102	Keep out of reach of children.
P261	Avoid breathing dust.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P391	Collect spillage.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.
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

Registration number	Classification according to Regulation (EU) 1272/2008 (CLP)	Concentration (% w/w)
Florasulam (CAS-No.145701-23-1)		
	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	10.5 %
Metsulfuron methyl (CAS-No.74223-64-6) (M-Factor : 1,000[Acute] 1,000[Chronic])		
	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	8.3 %
Tribenuron methyl (CAS-No.101200-48-0) (EC-No.401-190-1) (M-Factor : 100[Acute] 100[Chronic])		
	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	8.3 %
Sodium carbonate (CAS-No.497-19-8) (EC-No.207-838-8)		



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01-2119485498-19	Eye Irrit. 2; H319	>= 1 - < 5 %
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Lignosulfonic acid, sodium salt, sulfomethylated (CAS-No.68512-34-5)

	Eye Irrit. 2; H319	>= 1 - < 5 %
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Trisodium phosphate dodecahydrate (CAS-No.10101-89-0)

01-2119489800-32	Skin Corr. 1C; H314 Eye Dam. 1; H318	>= 1 - < 5 %
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The above products are compliant to REACH registration obligations; 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 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. For specialist advice contact the National Poisons Information Service. Healthcare Professionals: (01) 809 2566 or (01) 837 9964 (24h per day – 365 days per year). Public Poisons Information Line: (01) 809 2166 (8am-10pm).
- 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 : No information available.

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

- Treatment : Treat symptomatically.



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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 (NO_x)

5.3. Advice for firefighters

Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

: (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : 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



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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 storage, 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
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

Type Form of exposure	Control parameters	Update	Regulatory basis	Remarks
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Kaolin (CAS-No. 1332-58-7)



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Time Weighted Average (TWA): Respirable dust.	2.0 mg/m ³	2010	Ireland. Occupational Exposure Limits	
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Starch (CAS-No. 9005-25-8)

Time Weighted Average (TWA): Respirable dust.	4 mg/m ³	2010	Ireland. Occupational Exposure Limits	
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Time Weighted Average (TWA): Total inhalable dust.	10 mg/m ³	2010	Ireland. Occupational Exposure Limits	
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Titanium dioxide (CAS-No. 13463-67-7)

Time Weighted Average (TWA): Total inhalable dust.	10 mg/m ³	2010	Ireland. Occupational Exposure Limits	
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Time Weighted Average (TWA): Respirable dust.	4 mg/m ³	2010	Ireland. Occupational Exposure Limits	
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Sucrose (CAS-No. 57-50-1)

Time Weighted Average (TWA):	10 mg/m ³	2010	Ireland. Occupational Exposure Limits	
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Short term exposure limit	20 mg/m ³	2010	Ireland. Occupational Exposure Limits	
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Quartz (CAS-No. 14808-60-7)

Time Weighted Average (TWA): Respirable dust.	0.1 mg/m ³	2010	Ireland. Occupational Exposure Limits	
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8.2. Exposure controls

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection : Material: Nitrile rubber
Glove thickness: 0.4 - 0.7 mm
Glove length: Gauntlets
Protection index: Class 6
Wearing time: 8 h
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. Gauntlets shorter than 35 cm long shall be worn under the combination sleeve. Request information on glove permeation properties from the glove supplier. 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 (EN 13982-2)
Rubber apron Rubber or plastic boots

Spray application - outdoor:

Tractor / sprayer with hood: No personal body protection normally required.



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Tractor / sprayer without hood: Low application: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Rubber or plastic boots

Middle-height application: Full protective clothing Type 5 + 6 (EN ISO 13982-2 / EN 13034) Rubber or plastic boots

Mechanical automatized spray application in closed tunnel: No personal body protection normally required.

To optimize the ergonomics it may be recommended to use cotton underwear when wearing some fabrics. Take advice from supplier.

Garment materials that are resistant to both water vapour and air will maximise wearing comfort. Materials should be robust to maintain the integrity and barrier in use.

The permeation resistance of the fabric must be verified independently of the « type » protection recommended, to ensure an appropriate performance level of the material adequate to the corresponding agent and type of exposure.

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).

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 FFP2 (EN149)

Mixer and loaders must wear: Half mask with a particle filter FFP2 (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 FFP1 (EN149)



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	: solid, granular
Colour	: light brown
Odour	: mild
Melting point/range	: Not available for this mixture.
Flash point	: Not applicable
Flammability (solid, gas)	: Does not sustain combustion.
Ignition temperature	:
Thermal decomposition	: Not available for this mixture.
Auto-ignition temperature	: Test Type :Auto-ignition temperatureNot available for this mixture.
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.
Water solubility	: soluble
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

Phys.-chem./other information : No other data to be specially mentioned.

SECTION 10: Stability and reactivity



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- 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 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: Acute toxicity estimate
Information source: Internal study report

Acute inhalation toxicity

LC50 / 4 h Rat : > 5 mg/l
Method: Acute toxicity estimate
Information source: Internal study report

Acute dermal toxicity

LD50 / Rat : > 5,000 mg/kg
Method: Acute toxicity estimate
Information source: Internal study report

Skin irritation

Rat
Result: No skin irritation
The toxicological data has been taken from products of similar composition. Information source: Internal study report

Eye irritation

Rabbit
Result: Moderate eye irritation
The toxicological data has been taken from products of similar composition. Information source: Data provided by an external source.

Sensitisation

Guinea pig
Result: Causes sensitisation.



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

Repeated dose toxicity

- Florasulam
Oral Rat
No toxicologically significant effects were found.
- Metsulfuron methyl
The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral Rat
Exposure time: 90 d
Reduced body weight gain, Liver effects

Oral Mouse
Exposure time: 90 d
NOAEL: > 5,000 mg/kg

Dermal Rabbit
Exposure time: 21 d
Drying of skin, Cracking of skin, Skin irritation

Dermal Rabbit
Exposure time: 21 d
NOAEL: 125 mg/kg
Drying of skin, Cracking of skin, Skin irritation

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

Dermal Rabbit
Skin irritation

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

Oral - feed Mouse
Exposure time: 90 d
NOAEL: 500 mg/kg
Reduced body weight gain

Oral Rat
Exposure time: 28 d
Reduced body weight gain

Mutagenicity assessment

- Florasulam



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

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

Carcinogenicity assessment

- Florasulam
Not classifiable as a human carcinogen. Animal testing did not show any carcinogenic effects.
- Metsulfuron methyl
Not classifiable as a human carcinogen. Did not show carcinogenic effects in animal experiments.
- Tribenuron methyl
Not classifiable as a human carcinogen. An increased incidence of tumours was observed in laboratory animals. Target(s): Mammary glands

Toxicity to reproduction assessment

- Florasulam
No toxicity to reproduction Animal testing showed no reproductive toxicity.
- Metsulfuron methyl
No toxicity to reproduction Animal testing did not show any effects on fertility.
- Tribenuron methyl
No toxicity to reproduction

Assessment teratogenicity

- Florasulam
Animal testing showed no developmental toxicity.
- Metsulfuron methyl
Animal testing showed no developmental toxicity.

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

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



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SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish

- Florasulam
LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): 3.2 mg/l
Information source: Data provided by an external source.
- Metsulfuron methyl
static test / LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): > 150 mg/l
Method: OECD Test Guideline 203
Information source: Internal study report

Toxicity to aquatic plants

ErC50 / 72 h / Pseudokirchneriella subcapitata (microalgae): 0.261 mg/l
Method: OECD Test Guideline 201
Information source: Internal study report (Data on the product itself)

ErC50 / 7 d / Lemna gibba (duckweed): 0.00317 mg/l
Method: OECD Test Guideline 221
Information source: Internal study report (Data on the product itself)

Toxicity to aquatic invertebrates

- Florasulam
EC50 / 48 h / Daphnia magna (Water flea): 180 mg/l
Information source: Data provided by an external source.
- Metsulfuron methyl
static test / EC50 / 48 h / Daphnia magna (Water flea): > 120 mg/l
Method: OECD Test Guideline 202
Information source: Internal study report

Toxicity to other organisms

- Metsulfuron methyl
LD50 / 48 h / Apis mellifera (bees): > 44.30 µg/b
Method: OEPP/EPPO Test Guideline 170
Oral Information source: Internal study report
- Metsulfuron methyl
LD50 / 48 h / Apis mellifera (bees): > 50.00 µg/b
Method: OEPP/EPPO Test Guideline 170
Contact Information source: Internal study report

Chronic toxicity to fish

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



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NOEC / 21 d / Oncorhynchus mykiss (rainbow trout): 68 mg/l
Method: OECD Test Guideline 204
Information source: Internal study report

- Tribenuron methyl
NOEC / 21 d / Oncorhynchus mykiss (rainbow trout): > 560 mg/l

Early Life-Stage / NOEC / 62 d / Oncorhynchus mykiss (rainbow trout): 11.9 mg/l
Method: OECD Test Guideline 204
Information source: Internal study report

Chronic toxicity to aquatic Invertebrates

- Florasulam
NOEC / 21 d / Daphnia (water flea): 38.9 mg/l
- Metsulfuron methyl
NOEC / 21 h / Daphnia magna (Water flea): 100 mg/l

NOEC / 21 d / Daphnia magna (Water flea): 100 mg/l
Method: OECD Test Guideline 202
Information source: Internal study report
- Tribenuron methyl
NOEC / 21 d / Daphnia magna (Water flea): 120 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).



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12.6. Other adverse effects

Additional ecological information

See product label for additional application instructions relating to environmental precautions. No other ecological effects to be specially mentioned

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. (Metsulfuron methyl, Tribenuron methyl, Florasulam)
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. (Metsulfuron methyl, Tribenuron methyl, Florasulam)
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:
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. (Metsulfuron methyl, Tribenuron methyl, Florasulam)
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 data available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable



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SECTION 15: Regulatory information

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 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.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment is not required for this/these products
The mixture is evaluated within the frame of the provisions of Regulation (EC) No. 1107/2009.
Refer to the label for exposure assessment information.

SECTION 16: Other information

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

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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

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



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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.

TM Trademark of E.I. du Pont de Nemours and Company.

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

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.