

**Safety Information**

**Ally® Max SX®**

**Herbicide**

Contains 143 g/kg  
metsulfuron-methyl and  
143 g/kg tribenuron-methyl

Contains tribenuron methyl:  
May produce an allergic reaction

**WARNING**



**Very toxic to aquatic life with long lasting effects.**

Collect spillage.

Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

**To avoid risks to human health and the environment, comply with the instructions for use**

**PCS No. 03435**

**K-35798/31503 - IRELAND**



DuPont™

**Ally® Max SX®**

CEREAL HERBICIDE

GROUP

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HERBICIDE



**PCS No: 03435**

A water soluble granule formulation containing 143 g/kg  
metsulfuron-methyl and 143 g/kg tribenuron-methyl for  
weed control in wheat and barley,  
oats and triticale.

**Contents: 84 g e**

**Emergency Tel: (01) 901 4670**

**National Poisons Centre: (01) 837 9964 or (01) 809 2166**

Manufactured in E.U.

© Registered trademark of E I du Pont de Nemours and Company



# DuPont™ Ally® Max SX®

## CEREAL HERBICIDE

PCS No: 03435

A water soluble granule formulation containing 143 g/kg metsulfuron-methyl and 143 g/kg tribenuron-methyl for weed control in wheat and barley, oats and triticale.

Manufactured in E.U.

Du Pont (U.K.) Limited, Crop Protection Products,  
Wedgwood Way, Stevenage, Herts. SG1 4QN. England  
Tel ; 00 44 1438 734450 or  
[enquiry.agproducts@gbr.dupont.com](mailto:enquiry.agproducts@gbr.dupont.com)

Emergency Tel: (01) 901 4670

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### FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

**Maximum individual dose:** 42 g/ha

**Maximum number of treatments:** One per crop

**Maximum total dose:** 42 g/ha

**Crops:** wheat, barley, oats and triticale

**Latest time of application:** Up to and including flag leaf ligule / collar just visible (GS39)

**Method of application:** Tractor mounted sprayer

### SAFETY PRECAUTIONS

#### ENVIRONMENTAL PROTECTION

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).



## DIRECTIONS FOR USE

**IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.**

### RESTRICTIONS

- ALLY® MAX SX® should not be applied to any crop suffering from stress as a result of drought, waterlogging, low temperatures, pest or disease attack, nutrient or lime deficiency or other factors reducing crop growth.
- Do not use ALLY® MAX SX® on cereal crops undersown with grasses, clover or other legumes or any other broad-leaved crop.
- Due to the high level of activity of the herbicide, special care must be taken to avoid damage by drift onto broad-leaved plants outside the target area, or onto ponds, waterways or ditches. Thorough cleansing of equipment is also very important - see below.
- Contract agents should be consulted before using on crops grown for seed.

- ALLY® MAX SX® should not be applied within 7 days of rolling the crop.
- Do not apply ALLY® MAX SX® more than once to any cereal crop.
- All requirements or restrictions on other product labels must be adhered to when applied to the same crop as ALLY® MAX SX®. Contact your DuPont distributor for further information.
- Do not tank-mix ALLY® MAX SX® with chlorpyrifos. Allow at least 14 days between application of ALLY® MAX SX® and chlorpyrifos treatments.

### WEED CONTROL

ALLY® MAX SX® contains metsulfuron methyl and tribenuron methyl, sulfonylurea (ALS inhibitor) herbicides which work mainly by contact action and is most effective if applied when the weeds are small and actively growing. Good spray cover of the weeds must be obtained for best results. Susceptible plants cease growth almost immediately after application and symptoms can be seen about two weeks after application. Weed control may be reduced when soil conditions are very dry. The susceptibility rating of weeds in the following table refer to good spray cover and good growing conditions.

Weed Species	Plants up to 2 expanded true leaves	Plants up to 6 expanded true leaves	Plants up to 15 cm across/high
Black-bindweed	MS	MS	—
Charlock	S	S	S
Chickweed, Common	S	S	S
Cranes-Bill, Dove's Foot	S	S	—
Dead-nettle, Red	S	S	MS
Docks	S	S	S
Fat-hen	S	R	R
Field-speedwell, Common	S	S	MS
Forget-me-not, Field	S	MS	MS
Fool's Parsley	S	S	MS
Hemp-nettle, Common	S	S	S
Knotgrass	S	MS	MS
Mayweeds	S	S	S
Nettle, Small	S	S	—
Pale Persicaria	S	S	S
Pansy, Field	S	MS	MS
Parsley-piert	S	S	S

Weed Species	Plants up to 2 expanded true leaves	Plants up to 6 expanded true leaves	Plants up to 15 cm across/high
Poppy, Common	S	S	MS
Redshank	S	S	S
Shepherd's-purse	S	S	S
Sowthistle, Smooth	S	—	—
Thistle, Creeping*	S	S	S
Volunteer Rape	S	S	—
Volunteer Sugar Beet	S	S	S

S = Susceptible, MS = Moderately susceptible, MR = Moderately resistant, R = Resistant  
 \*Best control of Creeping thistle is achieved from later application when thistles have emerged.

## RESISTANCE

When herbicides with the same mode of action are used repeatedly over several years in the same field, selection of resistant biotypes can take place. These can propagate and may become dominating. A weed species is considered resistant to a herbicide if it survives a correctly applied treatment at the recommended dose. Development of resistance with a weed species can be avoided or delayed by alternating (or tank

mixing) with suitable products having a different mode of action. For the control of Chickweed, this product must always be applied in a mixture with an alternate mode of action herbicide at recommended rates.

A strategy for preventing and managing resistance should be adopted. Further details and advice on how to implement such a strategy may be obtained from your crop adviser or supplier. The Herbicide Resistance Action Committee (HRAC) also produces guidelines that may be consulted for additional information.

#### **CROPS**

ALLY® Max SX® can be used on all varieties of wheat, barley, oats and triticale between the growth stages given below.

#### **DOSE**

Apply ALLY® Max SX® at 42 g/ha.

#### **TIMING**

ALLY® MAX SX® should be applied in the spring after 1st February from the three-leaf stage (GS 13) up to and including the flag leaf ligule/collar just visible (GS 39).

#### **FOLLOWING CROPS**

Only cereals, oilseed rape, field beans or grass may be sown in the same calendar year as harvest of a cereal crop treated with ALLY® MAX SX®.

#### **VOLUME AND APPLICATION**

BEFORE USING ALLY® MAX SX®, SPRAYING EQUIPMENT MUST BE CLEAN AND FREE FROM CONTAMINATION WITH OTHER PESTICIDES. Application should be made in 100-200 litres of water per hectare, using suitable ground equipment to give good spray cover of the weeds. When crops are thick or weed growth is dense, use 400 litres of water per hectare. Care should be taken not to overlap spray swaths.

#### **MIXING**

Quarter fill the spray tank with clean water, start the agitation and add the required quantity of ALLY® MAX SX® directly to the tank without prior creaming. Continue agitation while topping up the tank and while spraying.

#### **COMPATIBILITY**

In any tank-mix add ALLY® MAX SX® to the tank first and ensure it is fully dispersed before adding the partner product. Do not allow ALLY® MAX

SX® to come into contact with undiluted pesticide concentrate. Products should only be tank-mixed if each product can be applied within the label recommendations for its use. For further information contact your DuPont distributor.

#### **SPRAY TANK CLEAN-OUT**

POOR CLEANOUT PRACTICES AND INSUFFICIENT WATER VOLUMES USED FOR THE RINSE PROCEDURE MAY RESULT IN INADEQUATE REMOVAL OF PRODUCT DEPOSITS. SUBSEQUENT USE OF APPLICATION EQUIPMENT IN THESE CIRCUMSTANCES MAY RESULT IN DAMAGE TO NON-CEREAL CROPS.

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN CEREALS, IMMEDIATELY AFTER SPRAYING ALLY® MAX SX® THOROUGHLY CLEAN ALL SPRAY EQUIPMENT, INCLUDING INSIDE AND OUTSIDE OF LID, USING THE FOLLOWING PROCEDURE:

Always start with a clean tank and spray system. Clean spray equipment thoroughly immediately after use.

1. Thoroughly and completely rinse all interior tank surfaces (including lid) with water (use at least 10% of the tank capacity), taking care to remove any visible deposits. Flush pump, filters and boom after remov-

ing in-line strainers, nozzle tips and screens (clean these parts separately). Drain the remainder of the rinsate from the tank.

2. Repeat the rinse, flush and drain.

3. Dispose of washings safely. Do not spray onto sensitive crop or land intended for cropping with sensitive crop.

#### **Note:**

Consult label tank cleanup procedures for all tank mix partners and be sure to use the most rigorous procedure recommended.

#### **WARNING**

EXTREME CARE SHOULD BE TAKEN TO AVOID DAMAGE BY DRIFT OF SPRAY ONTO BROAD-LEAVED PLANTS OUTSIDE THE TARGET AREA OR ONTO PONDS, WATERWAYS OR DITCHES. SPRAYING EQUIPMENT SHOULD NOT BE DRAINED OR FLUSHED ONTO LAND PLANTED WITH OR INTENDED FOR PLANTING WITH TREES OR CROPS OTHER THAN CEREALS.

#### **NOTICE TO BUYER**

All goods supplied by us are of a high grade and we believe them to be suitable for any purpose for which we expressly supply them, but as we cannot exercise control over their mixing or use, all conditions and war-

warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use.

SPECIMEN -  
2015 to date

*All manufacturers trademarks are duly acknowledged.*

SAFETY DATA SHEET according to Regulation (EC) No 1907/2006 and 453/2010

Version 6.0    Revision Date 25.07.2013    Ref. 130000015715

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.

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


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**1.1. Product identifier**

Product name : ALLY® MAX SX  
 Synonyms : B11944373  
 DPX-LDY15 28.6SX

**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 : +353 (01) 901 4670

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**SECTION 2: Hazards identification**


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**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**

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.,  
 Contains: Tribenuron methyl / EUH208: May produce an allergic reaction.,

P391 Collect spillage.

P501 Dispose of contents/ container to an approved waste disposal plant.

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 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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**Tribenuron methyl (CAS-No.101200-48-0) (EC-No.401-190-1)**

	R43 N;R50/53	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	14.3 %
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**Metsulfuron methyl (CAS-No.74223-64-6)**

	N;R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	14.3 %
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**Sodium carbonate (CAS-No.497-19-8) (EC-No.207-838-8)**

01-2119485498-19	Xi; R36	Eye Irrit. 2; H319	>= 5 - < 10 %
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**Lignosulfonic acid, sodium salt, sulfomethylated (CAS-No.68512-34-5)**

	Xi; R36	Eye Irrit. 2; H319	>= 1 - < 5 %
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**Trisodium phosphate dodecahydrate (CAS-No.10101-89-0)**

01-2119489800-32	C;R34	Skin Corr. 1C; H314 Eye Dam. 1; H318	>= 1 - < 5 %
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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 first aid measures**

General advice	: 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). Never give anything by mouth to an unconscious person.
Inhalation	: Move to fresh air. Oxygen or artificial respiration if needed. Consult a physician after significant exposure.
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 : 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 without medical advice. If victim is conscious: Rinse mouth with water.

#### 4.2. Most important symptoms 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 immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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### SECTION 5: Firefighting measures

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#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

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 (CO<sub>2</sub>) nitrogen oxides (NO<sub>x</sub>)

#### 5.3. Advice for firefighters

Special protective equipment for firefighters

Further information

: Wear self-contained breathing apparatus and protective suit.

: 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.

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### SECTION 6: Accidental release measures

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#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Control access to area. Avoid breathing dust. Avoid contact with skin. Use personal protective equipment. Keep people away from and upwind of spill/leak. Refer to protective measures listed in sections 7 and 8.

#### 6.2. Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so. Use appropriate container to avoid environmental contamination. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Local authorities

should be advised if significant spillages cannot be contained. If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Clean-up methods - small spillage 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 : 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

Advice on protection against fire and explosion

### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

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. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Avoid exceeding of the given occupational exposure limits (see section 8).

: Keep away from heat and sources of ignition. Avoid dust formation in confined areas. During processing, dust may form explosive mixture in air.

: Store in original container. Keep in properly labelled containers. Keep container tightly closed in a dry and well-ventilated place. Store in a place accessible by authorized persons only. 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	Basis	Remarks
<b>Sucrose (CAS-No. 57-50-1)</b>				
TWA	10 mg/m <sup>3</sup>	2010	ELV (IE)	
STEL	20 mg/m <sup>3</sup>	2010	ELV (IE)	

**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: 4 - 7 mm Glove length: Gauntlets of 35 cm long or longer. Protection index: Class 6 Wearing time: > 480 min The selected protective gloves have to satisfy the specifications

Skin and body protection

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. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). 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.

: 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) 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. 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).

	<p>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.</p> <p>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.</p>
Protective measures	<p>: 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.</p>
Hygiene measures	<p>: Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. 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.</p> <p>Dispose of rinse water in accordance with local and national regulations.</p>

#### 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: Low application (horticulture, field crops): Half mask with a particle filter P1 (EN 143). Backpack / knapsack sprayer: Low application (horticulture, field crops): Half mask with a particle filter P1 (EN 143). Mechanical automatized spray application in closed tunnel: No personal respiratory protective equipment normally required.

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### SECTION 9: Physical and chemical properties

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#### 9.1. Information on basic physical and chemical properties

Form	: granular
Colour	: brown, light brown
Odour	: mild, lignin like
Odour Threshold	: not determined
pH	: 9.2 at 10 g/l ( 20 °C)
Melting point/range	: Not available for this mixture.
Boiling point/boiling range	: not applicable
Flash point	: not applicable
Flammability (solid, gas)	: The product is not flammable.
Thermal decomposition	: Not available for this mixture.

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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	: 688 kg/m <sup>3</sup> , packed
Water solubility	: soluble
Partition coefficient: n-octanol/water	: not applicable
Viscosity, kinematic	: not applicable
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**

**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.

**10.5. Incompatible materials** : No materials to be especially mentioned.

**10.6. Hazardous decomposition products** : No hazardous decomposition products are known.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute oral toxicity LD50 / rat : > 5,000 mg/kg  
Method: Fixed Dose Method  
The toxicological data has been taken from products of similar composition. 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  
The toxicological data has been taken from products of similar composition. Information source: Internal study report

Skin irritation	<p>rabbit            Result: No skin irritation            Method: OECD Test Guideline 404            The toxicological data has been taken from products of similar composition. Information source: Internal study report</p>	Mutagenicity assessment	<p>Oral rat            Reduced body weight gain, Organ weight changes, Liver</p>
Eye irritation	<p>rabbit            Result: No eye irritation            Method: OECD Test Guideline 405            The toxicological data has been taken from products of similar composition. Information source: Internal study report</p>	Mutagenicity assessment	<p>Dermal rabbit            Skin irritation</p> <p>Tribenuron methyl            Animal testing did not show any mutagenic effects. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.</p>
Sensitisation	<p>mouse Local lymph node test            Result: Animal test did not cause sensitization by skin contact            Method: OECD Test Guideline 429            (Data on the product itself) Information source: Internal study report</p>	Carcinogenicity assessment	<p>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.</p>
Repeated dose toxicity	<p>Tribenuron methyl            The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.</p>	Toxicity to reproduction assessment	<p>Tribenuron methyl            Not classifiable as a human carcinogen. An increased incidence of tumours was observed in laboratory animals. Target(s): Mammary glands</p>
	<p>Oral rat            Exposure time: 28 d            Reduced body weight gain</p>	Toxicity to reproduction assessment	<p>Metsulfuron methyl            Did not show carcinogenic effects in animal experiments.</p>
	<p>Metsulfuron methyl            Oral rat            Exposure time: 90 d            Reduced body weight gain, Liver effects</p>	Assessment teratogenicity	<p>Tribenuron methyl            No toxicity to reproduction</p> <p>Metsulfuron methyl            Animal testing did not show any effects on fertility.</p> <p>Metsulfuron methyl            Animal testing showed no developmental toxicity.</p>

STOT - single exposure-	The substance or mixture is not classified as specific target organ toxicant, single exposure.		The toxicological data has been taken from products of similar composition. Information source: Internal study report
STOT - repeated exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.	Chronic toxicity to fish	Tribenuron methyl NOEC / 21 d / Oncorhynchus mykiss (rainbow trout): > 560 mg/l
Aspiration hazard	The mixture does not have properties associated with aspiration hazard potential.		Metsulfuron methyl NOEC / 21 h / Oncorhynchus mykiss (rainbow trout): 68 mg/l
<b>SECTION 12: Ecological information</b>		Chronic toxicity to aquatic Invertebrates	Tribenuron methyl NOEC / 21 d / Daphnia magna (Water flea): 120 mg/l
<b>12.1. Toxicity</b>			Metsulfuron methyl NOEC / 21 h / Daphnia magna (Water flea): 100 mg/l
Toxicity to fish	static test / LC50 / 96 h / Oncorhynchus mykiss (rainbow trout): > 120 mg/l Method: OECD Test Guideline 203 The toxicological data has been taken from products of similar composition. Information source: Internal study report	<b>12.2. Persistence and degradability</b>	
Toxicity to aquatic plants	EbC50 / 72 h / Pseudokirchneriella subcapitata (green algae) > 0.082 mg/l Method: OECD Test Guideline 201 (Data on the product itself) Information source: Internal study report  ErC50 / 168 h / Lemna gibba (duckweed): > 0.036 mg/l Method: OECD Test Guideline 221 (Data on the product itself)	Biodegradability	Not readily biodegradable. Estimation based on data obtained on active ingredient.
		<b>12.3. Bioaccumulative potential</b>	
		Bioaccumulation	Does not bioaccumulate. Estimation based on data obtained on active ingredient.
		<b>12.4. Mobility in soil</b>	
Toxicity to aquatic invertebrates	static test / LC50 / 48 h / Daphnia magna (Water flea): > 120 mg/l Method: OECD Test Guideline 202	Mobility in soil	Under actual use conditions, there is no reasonable expectation of any movement of the product from the top soil layer.



**12.5. Results of PBT and vPvB assessment**

PBT and vPvB assessment      This 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

**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. (Tribenuron methyl, Metsulfuron methyl)

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: (E)

**IATA C**

14.1. UN number:      3077  
 14.2. UN proper shipping name:      Environmentally hazardous substance, solid, n.o.s. (Tribenuron methyl, Metsulfuron methyl)  
 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. (Tribenuron methyl, Metsulfuron methyl, Tribenuron methyl, Metsulfuron methyl)  
 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 73/78 and the IBC Code**  
 not applicable

**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 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 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**

R34	Causes burns.
R36	Irritating to eyes.
R43	May cause sensitisation by skin contact.
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.**

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

**Further information**

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