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Risk and Safety Information

**RATIO® SX®
Herbicide**

Containing 400 g/kg thifensulfuron methyl and 100 g/kg tribenuron methyl
Contains Tribenuron methyl. May produce an allergic reaction'

Very toxic to aquatic life with long lasting effects

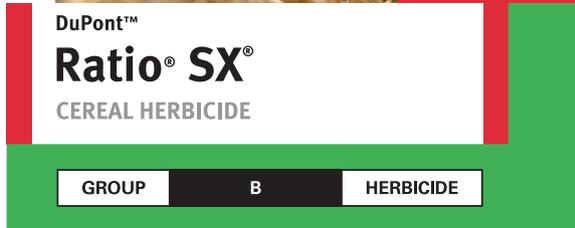
Collect spillage.

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

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).

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

WARNING



MAPP 12601

A soluble granule formulation containing 400 g/kg thifensulfuron methyl and 100 g/kg tribenuron methyl, sulfonyleureas, for spring weed control in wheat, barley and winter oats.



Contents: **450 g e**

FOR PROFESSIONAL USE ONLY

Manufactured in the E.U.

Du Pont (U.K.) Limited, Crop Protection Products
4th Floor, Kings Court, London Road, Stevenage
Hertfordshire - SG1 2NG
Tel: 01438 734450 or enquiry.agproducts@dupont.com
Emergency Tél : 0870 820 0418

National Poisons service: telephone 111 (England and Wales) or 08454 24 24 24 (Scotland)



The Voluntary Initiative

This label is compliant with the CPA
Voluntary Initiative Guidance



To access the Safety Data Sheet for this product scan the code, visit www.cropprotection.dupont.co.uk or alternatively contact your supplier



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

K-41262/31603 - UK

Batch N°:

CYAN MAGENTA JAUNE NOIR



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DuPont™

Ratio® SX®

CEREAL HERBICIDE

GROUP

B

HERBICIDE

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CYAN MAGENTA JAUNE NOIR

SAFETY PRECAUTIONS

OPERATOR PROTECTION

Engineering control of operator exposure must be used where reasonably practicable, in addition to the following personal protective equipment:

Wear suitable protective gloves when handling the product. However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

When using do not eat, drink or smoke

ENVIRONMENTAL PROTECTION



Do not contaminate water with the product or its container.

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirement.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. The statutory buffer zone must be maintained and the distance recorded in the LERAP record form. The results of the LERAP record form must be kept available for three years.

Extreme care must be taken to avoid spray drift on to non-crop plants outside of the target area.

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyard and roads.

STORAGE AND DISPOSAL

Keep out of reach of children

Do not re-use container for any purpose and dispose of safely

Keep away from food, drink and animal feeding stuffs

Section 6 of the Health and Safety at Work Act

Additional Product Safety Information

(This section does not form part of the product label under the Control of Pesticide Regulations 1986)

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has "off-label" approval or is otherwise permitted under the Control of Pesticides Regulations.

The information on this label is based on the best available information including data from test results.

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops: wheat, barley and winter oats

Maximum individual dose: 100 g product/ha

Maximum number of treatments: 1 per crop

Latest time of application: Before the flag leaf ligule just visible (GS39)

Other Specific restrictions: This product must only be applied from 1st February in the year of harvest until the specified latest time of application.
Do not apply by hand held equipment

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE.FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS

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

- RATIO 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 RATIO 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.
- RATIO SX should not be applied within 7 days of rolling the crop.
- Do not apply RATIO SX more than once to any cereal crop.
- Do not tank mix on oats
- All requirements or restrictions on other product labels must be adhered to when applied to the same crop as RATIO SX. Contact your DuPont distributor for further information.
- Refer to 'Compatibility' for details on use of RATIO SX with other 'ALS inhibiting' herbicides

Weed control

RATIO SX contains thifensulfuron-methyl and tribenuron-methyl, sulfonylurea (ALS inhibitor) herbicides which work mainly by con-

tact 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. Rain within four hours of application may reduce the effectiveness of the product.

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	6 expanded true leaves	15 cm across/high
Charlock	S	S	S
Chickweed, Common	S	S	S
Cleavers	MS	MS	MR
Mayweed	S	S	S
Poppy, Common	S	S	S
Red Dead-nettle	S	MS	MS
Redshank	S	S	S
Shepherd's-purse	S	S	MS

S = Susceptible MS = Moderately Susceptible MR = Moderately Resistant

Resistance

This product contains tribenuron-methyl and thifensulfuron-methyl, which are ALS inhibitors, also classified by the Herbicide Resistance Action Committee as 'Group B'. 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. A strategy for preventing and managing resistance should be adopted. The Weed Resistance Action Group has produced guidelines and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer.

Crops

RATIO SX can be used on all varieties of winter wheat, spring wheat, winter barley, spring barley and winter oats between the growth stages given below.

Dose

Apply RATIO SX at 100 g product/ha.

Timing

RATIO SX must 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).

Safety to crops of oats treated before four tillers (GS 24) has not been assessed.

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 RATIO SX. In case of crop failure for any reason, sow only cereals within three months of application of RATIO SX. Before sowing, soil should be ploughed and cultivated to a depth of at least 15-cm.

Volume and application

BEFORE USING RATIO 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. Use a conventional field crop sprayer at a pressure of 2-3 bars and apply as a MEDIUM spray (as defined by BCPC). 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 RATIO SX directly to the tank without prior creaming. Continue agitation while topping up the tank and while spraying.

Compatibility

To widen the spectrum of activity and improve the control of some weeds, RATIO SX may be applied with other herbicides, provided each product can be applied within the label recommendations for its use. Always add RATIO SX to the spray tank first when using in tank-mix and ensure it is fully dispersed before adding the partner product.

The following 'joint application' with other sulfonylurea and 'ALS inhibiting' herbicides may be applied to a crop. Requirements and restrictions on other product labels must be adhered to. 'Joint application' is the use of RATIO SX in tank mixture or sequence with one of the products listed below.

Absolute	Exceed SX	Lexus Class	Spitfire
Atlantis WG	Gala	Lexus SX	Spitfire Solo
Barton WG	Galaxy	Octavian	Staka SX
Broadway Star	GF-184	Oklar SX	Starane Gold
Broadway Sunrise	GF-2070 \$	Oriel 50 SX	Starane Vantage
Boxer	Hatra	Othello	Starane XL
Bullion	Hiker	Pacifica	Unite \$
Dakota	Horus	Primus 25 SC	Excalibur
Ductis SX	Hunter	Pursuit*	
Eagle*	Image	Slalom	

* only cereals as following crop

\$ use in sequence only

Additional recommendations may be approved since label printing. Please consult your DuPont distributor for latest details on compatibilities.

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 RATIO 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 removing 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 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.

All manufacturers trademarks are duly acknowledged.





