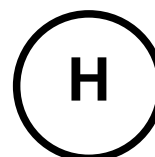


(Label main area front panel)



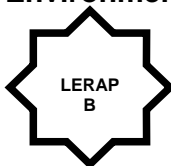
GROPPER™ SX MAPP 16290

A soluble granule formulation containing 200 g/kg metsulfuron-methyl, a sulfonylurea, for spring weed control in wheat, oats, barley, triticale and linseed, and for use on green cover on land temporarily removed from production e.g. set-aside.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

SAFETY PRECAUTIONS

Environmental Protection



Use appropriate containment to avoid environmental contamination
Do not contaminate water with this product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads
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. This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years
Aim spray away from water.

Storage and Disposal

This material and its container must be disposed of safely

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Herts. SG1 2NG

Technical enquiries Tel: 01438 734450 or enquiry.agproducts@dupont.com

Emergency Tel: 0870 820 0418

National Poisons Information Service tel; 111 (England and Wales), 08454 24 24 24
(Scotland)

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This label is compliant with the CPA Voluntary Initiative Guidance

Contents: 60 grams
Manufactured in the E.U.

GROPPER SX

Herbicide contains 200g/kg metsulfuron-methyl

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 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

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops: Wheat, oats, barley, triticale, linseed and green cover on land temporarily removed from production
e.g. set-aside

Maximum individual dose: 30 g product per hectare

Maximum number of treatments:

One per crop for wheat, oats, barley, triticale and linseed

One per year for green cover on land temporarily removed from production

Latest time of application:

Wheat, oats, barley and triticale: Before the flag leaf sheath extending stage.

Linseed: before flower buds visible, or up to 30 cm tall, whichever is the sooner.

Green cover on land temporarily removed from production: before 1 August in year of application

OTHER SPECIFIC RESTRICTIONS:

This product must only be applied from 1 February in the year of harvest until the specified latest time of application.

GROPPER SX must only be applied to green cover on land temporarily removed from production where a full green cover is established.

Treated green cover on land temporarily removed from production must not be grazed by livestock or harvested for human consumption or used for animal bedding. GROPPER SX must only be applied to green cover on land temporarily removed from production where the cover crop is predominantly (i.e. sufficient to maintain reasonable cover) grassland, wheat, barley, oats or triticale.

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

-----(*Start of label leaflet*)-----

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

- GROPPER SX, alone or in tank-mix, must 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 GROPPER SX on cereal crops undersown with grasses, clover or other legumes or any other broad-leaved crop.
- GROPPER SX must not be tank-mixed with chlorpyrifos. Allow at least 14 days between application of GROPPER SX and chlorpyrifos treatments.
- When using tank-mixtures take care not to overlap spray swaths.
- Do not use GROPPER SX in tank-mix on oats, triticale and linseed. On Linseed allow at least 7 days between GROPPER SX and other treatments (10 days if crop is growing poorly or under stress).
- GROPPER SX should not be applied within 7 days of rolling any crop.
- Contract agents should be consulted before using on crops grown for seed.

- 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 'Spray-tank cleanout'
- **Following Crops** - see under "CROPS"
- **Crop Failure** - In the event of crop failure for any reason, sow only wheat within 3 months of the application of GROPPER SX.
- Refer to 'Compatibility' for details on use of GROPPER SX with other 'ALS inhibiting' herbicides.

Weed Control

GROPPER SX is a highly active herbicide with foliar and root activity against a wide range of broad-leaved weeds. It is most effective when applied to small actively growing weeds. As larger weeds often become less susceptible, it is important to note the size of each weed species at the time of application.

Good spray cover of the weeds must be obtained. Weed control may be reduced when soil conditions are very dry. Nevertheless, with adequate soil moisture, susceptible weeds germinating soon after treatment will be controlled.

Weed 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 within a weed species can be avoided or delayed by sequencing 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 Groups have produced guidelines and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

Susceptible Weeds

The susceptibility ratings of weeds in the following table refer to good spray cover and good growing conditions.

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

*S = Susceptible MS= Moderately Susceptible MR = Moderately Resistant R = Resistant
Charlock, Common Chickweed, Red Dead-nettle, Mayweeds, Shepherd's-purse and Volunteer Rape will all be controlled by a dose of 25g/ha at the timings listed above.

Soil

GROPPER SX can be used on all soil types.

Volume and application

Apply in 100 - 400 litres of water per hectare, using suitable equipment to give good spray cover of the weeds. The higher volume is recommended when crops are thick or weed growth dense.

When applying GROPPER SX, care should be taken not to overlap spray swaths.

Mixing

- Before using GROPPER SX, make sure that the spraying equipment is clean.
- When using GROPPER SX in a tank-mix, always add GROPPER SX to the spray tank first.

GROPPER SX mixes easily with water, but the following mixing procedure should be followed: quarter fill the spray tank with water, start the agitation and add the required quantity of GROPPER 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, GROPPER SX may be applied with other herbicides, provided each product can be applied within the label recommendations for its use. Always add GROPPER SX to the spray tank first when using in tank-mix.

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 GROPPER SX in tank mixture or sequence with one of the products listed below.

Atlantis WG – sequence only	Excalibur	Spitfire
Broadway Star	Lexus Class	Starane XL
Broadway Sunrise	Lexus Millennium	Slalom
Bullion	Lexus SX	Unite
Ductis SX	Pacifica	

Eagle*	Pursuit*	
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* only cereals as following crop

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

CROPS

CEREALS

GROPPER SX can be used on all winter and spring varieties of wheat, oats, barley and triticale.

GROPPER SX must only be applied from 1 February, provided the crop has at least two leaves (wheat, oats and triticale) or three leaves (barley), until before the flag leaf extending stage.

Dose

Apply GROPPER SX at 30 g/ha when used alone or in tank-mix with other herbicides.

Following Crops

Only cereals, oilseed rape, field beans or grass may be sown in the same calendar year to succeed a cereal crop treated with GROPPER SX.

LINSEED

GROPPER SX should be applied to actively growing linseed (all varieties) from the growth stage "first pair of true leaves unfolded", up to 30 cm high or before flower buds visible, whichever comes first. Most annual weeds are best controlled by the earliest application possible.

Dose

Apply GROPPER SX at 30 g/ha.

Following Crops

Only cereals should be planted within 16 months of applying GROPPER SX to a linseed crop.

GREEN COVER ON LAND TEMPORARILY REMOVED FROM PRODUCTION e.g. SET-ASIDE

GROPPER SX may be applied to areas temporarily removed from production where the green cover is made up predominantly (i.e. sufficient to maintain reasonable cover) of grassland, wheat, barley, oats or triticale.

Where established grass species are the main cover crop, some discoloration and stunting may occur. GROPPER SX is selective to seedling cereals from the three-leaf stage (GS

13) but should not be used on seedling grasses.

Dose and timing

Apply GROPPER SX at 30 g/ha in 100 - 400 litres of water/ha before 1 August in year of application. The higher volume is recommended when weed growth is dense. Only one application of a sulfonylurea-containing product must be made per calendar year to green cover on land temporarily removed from production.

Following crops

Sow only cereals within 16 months of applying GROPPER SX on green cover on land temporarily removed from production e.g. set-aside.

General

GROPPER SX effectively controls broad-leaved docks, with best control achieved from application three weeks before or after cutting. Many other broad-leaved plants occurring in the "Set Aside" area will also be controlled or partially controlled, hence it may not be suitable for use where wild flower borders or other forms of conservation headland are to be developed.

Before using on land taken out of production as part of a grant-aided scheme, ensure compliance with the management rules of that scheme.

WARNINGS

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

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.

SPRAY TANK CLEAN-OUT

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN CEREALS, IMMEDIATELY AFTER SPRAYING GROPPER 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.

GENERAL NOTES:

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

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.

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

Safety Data Sheet

[insert QR code and wording]

To access the Safety Data Sheet for this product scan the code