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RISK AND SAFETY INFORMATION

LORATE® SX®

Herbicide

Contains 200 g/kg metsulfuron-methyl

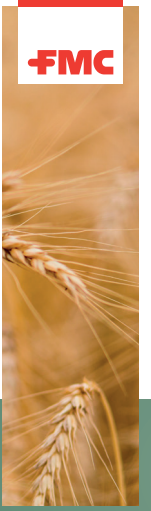


Very toxic to aquatic life with long lasting effects.

WARNING

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



LORATE® SX®

Cereal Herbicide

GROUP	2	HERBICIDE

MAPP 18687

H

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.

® is a trademark of FMC Corporation or an affiliate

Contents: **50 g**

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FMC Agro Limited, Rectors Lane, Pentre, Flintshire, CH5 2DH. Tel: 01244 537370. Email: fmc.agro.uk@fmc.com. Website: www.fmc-agro.co.uk. Technical Helpline: 01423 205011

Emergency No.s - Medical Incidents Involving Crop Protection Products: England & Wales: 111, Scotland: 08454 24 24 24, Northern Ireland: Local GP or Pharmacist, Republic of Ireland: 01 837 9964. Healthcare professionals seeking poisons information: www.toxbase.org.

Emergency No.s - Transportation, Warehousing & After Sale Incidents: CHEMTREC help centre Dialling from the UK and NI: 0870 820 0418, Dialling from Ireland: 01 901 4670

READ DIRECTIONS FOR USE ON ATTACHED LEAFLET

The Voluntary Initiative

This label is compliant with the CropLife UK Voluntary Initiative Guidance

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

Batch N°:

11005815_22073389_GREAT BRITAIN

	FILL IN		DIMENSION (WxH)
Country	GREAT BRITAIN	Single label	
Product SKU	11005815	Base for Booklet	
Product SKU Description	LORATE SX_50G_GB	Booklet	BKL 195x70 mm (155x70 mm)
Label SKU	22073389	Number of pages (Booklet)	10 pages
Label SKU Description	LBL_ML-F_50G_LORATE SX_GB_1	Carton label	
Label SKU (earlier version)		Preprinted Material	No

IMPORTANT INFORMATION
FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops	Maximum individual dose: (g product / ha)	Maximum number of treatments: (per crop)	Latest time of application
Barley, oats, triticale, wheat	25	1	No later than BBCH 39
Linseed	25	1	No later than BBCH 39
Green cover on land temporarily removed from production e.g. set-aside	25	1	Before 1 August in year of application

Other specific restrictions:

(1) 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 the 'Local Environment Risk Assessment for Pesticides Horizontal Boom Sprayers' booklet available from the HSE Chemicals Regulation Division's website or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.
(2) LORATE® must only be applied to green cover on land temporarily removed from production where a full green cover is established.
(3) Treated green cover on land temporarily removed from production must not be grazed by livestock or harvested for human or animal consumption or used for animal bedding.
(4) LORATE® 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.
(5) Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.
(6) This product must only be applied in the year of harvest after 15th March (winter cereals), or after 1st April (spring cereals, linseed and setaside) until the specified latest time of application.

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.

LORATE® SX®

Cereal Herbicide

GROUP	2	HERBICIDE

MAPP 18687

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.

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SAFETY PRECAUTIONS

Operator protection:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:
Operators must wear suitable protective clothing (coveralls), suitable protective gloves and face protection (faceshield) when handling the concentrate.
However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

Environmental protection:

Since there is a risk to aquatic life from use, users not applying the statutory buffer zone must either themselves carry out or ensure that someone else has carried out a Local Environment Risk Assessment for Pesticides (LERAP) on their behalf before each spraying operation from a horizontal boom sprayer. Users must not allow direct spray from such sprayers to fall within 5m of the top of the bank of any static or flowing waterbody or within 1m of a ditch which is dry at the time of application (these distances to be measured as set out in the booklet 'Local Environment Risk Assessment for Pesticides - Horizontal Boom Sprayers' and any amendments that are made to it) unless:

(a) The LERAP indicates that a narrower buffer zone will be sufficient; and
(b) Any measures indicated by the LERAP as justifying the narrower buffer zone are complied with in full and in accordance with any conditions applicable to them.

Spray must be aimed away from water.

The results of the LERAP must be recorded in written form and must be available for a period of three years for inspection to any person entitled to exercise enforcement powers under or in connection with the Plant Protection Products Regulations 2011 or the Plant Protection Products (Sustainable Use) Regulations 2012. (An electronic record will satisfy the requirement for a written record, providing it is similarly available for inspection and can be copied).

Detailed guidance on LERAPs and how to conduct a LERAP are contained in the booklet 'Local Environment Risk Assessment for Pesticides - Horizontal Boom Sprayers', available from HSE Chemicals Regulation Division's website. All LERAPs must be carried out in accordance with this Guidance and any amendments that are made to it.

Storage and Disposal

This material and its container must be disposed of safely.

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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

- LORATE® SX® alone or in tank-mix, must not be applied to any crop suffering from stress as a result of drought, water logging, low temperatures, pest or disease attack, nutrient or lime deficiency or other factors reducing crop growth.
- Do not use LORATE® SX® on cereal crops undersown with grasses, clover or other legumes or any other broad-leaved crop.
- LORATE® SX® must not be tank-mixed with chlorpyrifos. Allow at least 14 days between application of LORATE® SX® and chlorpyrifos treatments.
- When using tank-mixtures take care not to overlap spray swaths.
- LORATE® SX® should not be applied within 7 days of rolling any crop.
- Do not use LORATE® SX® in tank-mix on oats, triticale and linseed. On Linseed allow at least 7 days between LORATE® SX® and other treatments (10 days if crop is growing poorly or under stress).
- 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'.
- **Refer to 'Compatibility' for details on use of LORATE® SX® with other 'ALS inhibiting' herbicides.**

Weed Control

LORATE® 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, CropLife UK, 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.

Weed Species	Plants up to 2 expanded true leaves	Plants up to 6 expanded true leaves	Plants up to 15 cm across/high
Charlock	S	S	S
Chickweed, Common	S	S	S
Dead-nettle, Red	S	S	MS
Mayweeds	S	S	S
Shepherd's-purse	S	S	S
Volunteer Rape	S	S	–

S = Susceptible MS= Moderately Susceptible MR = Moderately Resistant
R = Resistant

Soil

LORATE® 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 LORATE® SX®, care should be taken not to overlap spray swaths.

Mixing

Before using LORATE® SX®, make sure that the spraying equipment is clean. LORATE® 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 LORATE® 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, LORATE® SX® may be applied with other herbicides, provided each product can be applied within the label recommendations for its use. Always add LORATE® 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 LORATE® SX® in tank mixture or sequence with one of the products listed below.

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

* only cereals as following crop
Additional recommendations may be approved since label printing. Please consult your FMC distributor for latest details on compatibilities.

CROPS

- **Cereals**
  LORATE® SX® can be used on all winter and spring varieties of wheat, oats, barley and triticale. LORATE® SX® must only be applied after 15th March (winter cereals) or after 1st April (spring cereals) in the year of harvest, but no later than BBCH 39 stage.

  Dose
  Apply LORATE® SX® at 25 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 LORATE® SX®.

- **Linseed**
  LORATE® SX® should be applied to actively growing linseed (all varieties) and must only be applied after 1st April in the year of harvest, but no later than BBCH 39 stage. Most annual weeds are best controlled by the earliest application possible.

  Dose
  Apply LORATE® SX® at 25 g/ha.

  Following Crops
  Only cereals should be planted within 16 months of applying LORATE® SX® to a linseed crop. In the event of crop failure for any reason, sow only wheat within 3 months of the application of LORATE® SX®.

- **Green cover on land temporarily removed from production *e.g.* set-aside**
  LORATE® 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. LORATE® 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 LORATE® SX® at 25 g/ha in 100 - 400 litres of water/ha after 1st April and 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 LORATE® SX® on green cover on land temporarily removed from production e.g. set-aside.

  General
  LORATE® 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 LORATE® SX® THOROUGHLY CLEAN ALL SPRAY EQUIPMENT, INCLUDING INSIDE AND OUTSIDE OF LID, USING THE FOLLOWING PROCEDURE:

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

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

NOTICE TO BUYER

FMC as the manufacturer warrants that the composition of the product in sealed original FMC packaging complies with the information given on this label. FMC is not liable for any direct or indirect consequences resulting from improper storage, handling or use of the product contrary to or otherwise not in compliance with this label, law and regulations. Various factors, especially local conditions, such as soil condition, plant varieties and weather conditions, may either cause the product not to have the full desired effect or result in damage to the crops treated. FMC does not assume any liability for such results.

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