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RISK AND SAFETY INFORMATION

LORATE®

Herbicide

Contains 200 g/kg
metsulfuron-methyl



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

WARNING

Collect spillage. Keep out of reach of children.
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: 05591

FMC

LORATE®

Cereal herbicide

GROUP B HERBICIDE

PCS No: 05591

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 tem-
porarily removed from production e.g. set-aside.

® Registered trademark of FMC Corporation or
an affiliate



Contents: 50 g e

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

Manufactured in EU

FOR PROFESSIONAL USE ONLY

Batch N°:

11005559_22045309_IRELAND

Dose and timing

Apply LORATE® at 30 g/ha before 1 August in year of application.
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® on green cover on land
temporarily removed from production e.g. set-aside.

General

LORATE® 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 man-
agement 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 DEPOS-
ITS. 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 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 responsi-
bility 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.

LORATE®

Cereal herbicide

A soluble granule formulation containing 200 g/kg metsulfuron-methyl, a sulfonyleurea, 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.

Manufactured in E.U.

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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. To protect aquatic organisms respect an unsprayed buffer zone of 5m to surface water bodies.

Storage and Disposal

This material and its container must be disposed of safely.

IMPORTANT INFORMATION FOR USE ONLY AS A PROFESSIONAL HERBICIDE

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

Maximum individual dose: 30 g product per hectare

Maximum total dose: 30 g product per hectare

Latest time of application

Wheat, oats, barley and triticale: flag leaf sheath extending stage. (GS39)

Linseed: Before flower buds visible (GS 51).

Green cover on land temporarily

removed from production: Before 1 August in year of application

Method of application: Tractor mounted / trailed sprayer

OTHER SPECIFIC RESTRICTIONS:

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

READ ALL SAFETY PRECAUTIONS BEFORE USE

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®, 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 LORATE® on cereal crops undersown with grasses, clover or other legumes or any other broad-leaved crop.
- When using tank-mixtures take care not to overlap spray swaths.
- LORATE® should not be applied within 7 days of rolling any crop.
- Do not use LORATE® in tank-mix on oats, rye, triticale and linseed. On Linseed allow at least 7 days between LORATE® 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® with other 'ALS inhibiting' herbicides

Weed Control

LORATE® 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 Herbicide Weed Resistance Action Committee (HRAC) also produced guidelines that may be consulted for additional information.

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
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
Fit-herb	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

** See Weed resistance paragraph.

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

LORATE® can be used on all soil types.

Volume and application

Apply in 150 - 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®, care should be taken not to overlap spray swaths.

Mixing

Before using LORATE®, make sure that the spraying equipment is clean. LORATE® 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® 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® may be applied with other herbicides, provided each product can be applied within the label recommendations for its use. Always add LORATE® to the spray tank first when using in tank-mix. Additional recommendations may be approved since label printing. Please consult FMC or your distributor for latest details on compatibilities.

Crops

• Cereals

LORATE® can be used on all winter and spring varieties of wheat, oats, barley, rye and triticale. LORATE® must only be applied from 1 February, from the 3 leaf stage on spring crops and the beginning of tillering on winter sown crops, until the flag leaf extending stage (GS 39)

Dose

Apply LORATE® 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 LORATE®.

• Linseed

LORATE® should be applied to actively growing linseed (all varieties) from the growth stage "first pair of true leaves unfolded", up to 25 cm high or before flower buds visible (GS 51), whichever comes first. Most annual weeds are best controlled by the earliest application possible.

Dose

Apply LORATE® at 30 g/ha.

Following Crops

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

• Green cover on land temporarily removed from production e.g. set-aside

LORATE® 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® is selective to seedling cereals from the three-leaf stage (GS 13) but should not be used on seedling grasses.