

# rest



MAPP 20794

A WATER DISPERSIBLE GRANULE FORMULATION containing 250 g/kg of Rimsulfuron, a Sulfonylurea, for the control of certain broad-leaved weeds in potatoes and forage maize.

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

Contents: 100 -500 g

Batch Number/Date of manufacture: See container

## READ DIRECTIONS FOR USE ON ATTACHED LEAFLET

<b>Authorisation holder</b> Sharda Agrochem Limited 201 Cervantes House 5-9 Headstone Road Harrow, Middlesex HA1 1PD United Kingdom	 <b>Sharda Agrochem LTD</b>	<b>Marketing company</b> Sharda Agrochem Limited 201 Cervantes House 5-9 Headstone Road Harrow, Middlesex HA1 1PD United Kingdom
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24-hour emergency telephone number: +44 (0) 1865 407333

## 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 concentrate.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection

WASH CONCENTRATE from skin or eyes immediately

Do not breath spray

WASH HANDS AND EXPOSED SKIN before meals and after work

### Environmental Protection

EXTREMELY DANGEROUS TO FISH OR OTHER AQUATIC LIFE

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container

EXTREME care should be taken to avoid spray drift onto non-crop plants outside of the target area

### Storage and disposal

KEEP OUT OF REACH OF CHILDREN.

DO NOT RE-USE CONTAINER for any purpose

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place

KEEP AWAY FROM FOOD DRINK AND ANIMAL FEEDING STUFFS

EMPTY CONTAINER COMPLETELY and dispose of safely

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

## REST

UFI: XXXX

### Warning

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

Avoid release to the environment.

Collect spillage.

Dispose of contents / container to a licensed hazardous-waste disposal contractor or collection site except 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**



## IMPORTANT INFORMATION

### FOR USE ONLY AS A PROFESSIONAL HERBICIDE

**Crops:** Potato, forage maize

**Maximum individual dose:** 50 g/ha

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

**Latest time of application:** Potato: before most advanced plants are 25 cm high

Forage maize: before 4-collar fully emerged stage

### Other specific restrictions:

This product may only be applied from 1<sup>st</sup> February in the year of harvest until the specified latest time of application.

To avoid the build-up of resistance do not apply this or any other product containing an ALS inhibitor herbicide with claims for control of grassweeds more than once to any crop

**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

- REST 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.
- Due to the high level of activity of the herbicide, special care must be taken to avoid damage by drift onto plants outside the target area, or onto surface waters or ditches. Thorough cleansing of equipment is also very important - see below.
- Do not apply to potatoes grown for certified seed.
- Before using REST on crops grown for processing, consult processor
- Further cultivation or ridging following application should be avoided.
- Do not apply REST to forage or grain maize treated with organo-phosphate (OP) insecticides.
- Do not apply REST on forage or grain maize under sown with grass or clover.

### Weed Control

REST works mainly by foliar action. When tank-mixed with 'Vivolt' or a herbicide partner, it controls a range of broad-leaved weeds and gives suppression to Common Couch top growth. It is most effective when applied to small actively growing weeds. Susceptible weeds cease growth almost immediately after application and symptoms can be seen within about ten days. Weed control may be reduced when soil conditions are very dry.

### Susceptible Weeds

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

Weed Species	REST (50 g) + 'Vivolt' 0.1% v/v	
	Cot - 2 leaf	2-6 leaf
Black-Bindweed	MS	MR
Black Nightshade	MS	R
Charlock*	S	S
Cleavers	S	S
Common Chickweed	S	S
Fat-hen	MR	MR
Hempnettle	S	S
Knotgrass	MS	R
Pale Persicaria	MS	MR
Redshank	S	MS
Red Dead Nettle	S	S
Scentless Mayweed	S	S
Small Nettle	S	S
Volunteer Oilseed Rape*	S	S

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

\*A rate of 30 g/ha + Vivolt 0.1% v/v is sufficient to control charlock and volunteer oilseed rape.

When applied for the control of broad-leaved weeds, REST will give suppression of Common Couch top growth.

### Weed resistance

This product contains rimsulfuron, which is an ALS inhibitor, also classified by the Herbicide Resistance Action Committee (HRAC) as a Group 2 herbicide (formerly Group B). 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 advisor or chemical supplier. HRAC also produces guidelines which may be consulted for additional information.

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 alternating (or tank mixing) with suitable products having a different mode of action.

### Soil

REST can be used on all soils and is unaffected by high organic matter.

### Weather

Avoid high light intensity (full sunlight) and high temperatures (above 21°C) on the day of spraying. Avoid periods of substantial day to night temperature changes or when frost is expected. Very dry conditions may reduce the effectiveness of the product.

### Volume and application

When applying REST, care should be taken not to overlap spray swaths. Apply in 200 litres of water per hectare, using suitable equipment to give good spray cover. The spray quality should be MEDIUM (as defined by BCPC), applied at a pressure of 2 - 3 bar.

### Following crops

Only winter wheat should be drilled in the same calendar year as a crop treated with REST. Only barley, wheat or maize should be sown in the spring of the year following treatment. In the second autumn following treatment, any crop may be drilled.

### Mixing

Before using REST, make sure that the spraying equipment is clean and free from contamination with other pesticides.

REST 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 REST directly to the tank without prior creaming. Continue agitation while topping up the tank and while spraying. Do not leave the sprayer standing without agitation with chemical in it.

### Compatibility

- REST is compatible with metribuzin on potatoes. Metribuzin mixtures should not be applied to metribuzin intolerant varieties (refer to metribuzin label).
- In any tank-mix, add REST to the tank first and ensure it is fully dispersed before adding the partner product. Products should only be tank-mixed if each product can be applied within the label recommendations for its use.
- Do not apply REST in sequence or in tank-mixture with a product containing any other sulfonylurea.

## POTATOES

### Crop safety

REST may cause transient chlorosis and/or crop stunting from which the crop usually recovers. REST must not be used on potatoes grown for seed.

### Timing

REST must be applied in the spring pre-emergence of the crop up until the crop is 25 cm high.

### Dose

REST must be applied with 'Vivolt' at 0.1% v/v.

## FORAGE MAIZE

### Crop safety

**REST can be applied to the following varieties.**

Please consult your distributor for latest list of varieties that REST can be applied to.

Andrea	Diamante	Facet	Folio	LG2080 (Alarik)
LG2246 (Levis)	Melody	Rival	Sonia	Trophee

REST may cause transient chlorosis and/or crop stunting from which the crop usually recovers. Do not apply REST to forage or grain maize treated with organophosphate (OP) insecticides.

### Timing

REST must be applied in the spring post-emergence up to the 4-collar stage of the forage maize.

### Dose

REST must be applied with 'Vivolt' at 0.1% v/v.

### WARNING

**EXTREME CARE SHOULD BE TAKEN TO AVOID DAMAGE BY DRIFT ONTO 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 POTATOES OR FORAGE OR GRAIN MAIZE

### SPRAY TANK CLEAN-OUT

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN POTATOES OR FORAGE MAIZE IMMEDIATELY AFTER SPRAYING REST THOROUGHLY CLEAN ALL SPRAY EQUIPMENT INCLUDING INSIDE AND OUTSIDE OF LID USING ALL CLEAR™ EXTRA SPRAYER CLEANER ACCORDING TO THE FOLLOWING LABEL INSTRUCTIONS:

1. Immediately after spraying, drain tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. Rinse inside of tank with clean water and flush through boom and hoses using at least one-tenth of the spray tank volume. Drain tank completely.
3. Half fill tank with clean water and add DuPont ALL CLEAR EXTRA at the recommended rate. Agitate and then flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation. Again flush the boom and hoses and drain tank completely.
4. Nozzles and filters should be removed and cleaned separately with an ALL CLEAR EXTRA solution containing 50 ml of ALL CLEAR EXTRA per 10 litres of water.
5. Rinse the tank with clean water and flush through the boom and hoses using at least one-tenth of the spray tank volume. Drain tank completely.
6. Dispose of washings safely. Do not spray onto sensitive crop or land intended for cropping with sensitive crops.

**NOTE:** If it is not possible to drain the tank completely, step 3 must be repeated before going on to step 4.

### COMPANY ADVISORY INFORMATION

The following information does not form part of the product label under the UK plant protection products regulations and provides additional advice on product use at the discretion of Sharda Agrochem Limited.

### CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use or the weather conditions before, during and after application which may affect the performance of the goods, 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 or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.