AGRITOX®

MAPP 14894

A soluble concentrate containing 500 g/L (44.25% w/w) MCPA as the dimethylamine salt.

A selective herbicide for the control of many broad-leaved weeds in cereals and grassland.

Net Contents: 10 L e

Batch: XXXX

PROTECT FROM FROST
FOR PROFESSIONAL USE ONLY

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

Nufarm UK Limited
Wyke Lane
Wyke, Bradford
West Yorkshire
BD12 9EJ
United Kingdom

Technical Helpline telephone number 01274 694714
24-hour emergency telephone number 01274 696603
## IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

<table>
<thead>
<tr>
<th>Crops</th>
<th>Maximum Individual Dose</th>
<th>Maximum Total Dose</th>
<th>Latest Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winter Wheat</td>
<td>3.3 L/ha</td>
<td>3.3 L product/ha/crop</td>
<td>Before 3rd node detectable (GS 33)</td>
</tr>
<tr>
<td>Spring wheat, winter and spring</td>
<td>3.3 L/ha</td>
<td>3.3 L product/ha/crop</td>
<td>Before 1st node detectable (GS 31)</td>
</tr>
<tr>
<td>barley, rye and oats</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Undersown cereals (listed above)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>With red clover</td>
<td>1.4 L/ha</td>
<td>1.4 L product/ha/crop</td>
<td>Before 1st node detectable (GS 31)</td>
</tr>
<tr>
<td>With grass only</td>
<td>2.7 L/ha</td>
<td>2.7 L product/ha/crop</td>
<td></td>
</tr>
<tr>
<td>Grassland</td>
<td>3.3 L/ha</td>
<td>6.6 L product/ha/year</td>
<td>N/A</td>
</tr>
<tr>
<td>Grassland (seed crop)</td>
<td>3.2 L/ha</td>
<td>3.2 L product/ha/year</td>
<td>5 weeks before heading</td>
</tr>
</tbody>
</table>

### Other specific restrictions

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.

Do not apply by hand-held equipment.

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

Livestock must be kept out of treated areas until poisonous weeds such as ragwort have died and become unpalatable.

This product must not be applied before the end of February in the year of harvest.

Do not apply in volumes less than 200 litres of water per hectare.

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.
DANGER

Harmful if swallowed
Causes serious eye damage

Wash hands thoroughly after handling.
Do not eat drink or smoke when using this product.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.

To avoid risks to human health and the environment, comply with the instructions for use
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 AND FACE PROTECTION (FACESHIELD) when handling the concentrate
WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces

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

Do not apply by hand held equipment
WASH CONCENTRATE from skin and eyes immediately.
WASH HANDS AND EXPOSED SKIN before meals and after work.
WHEN USING DO NOT EAT, DRINK OR SMOKE.
IF YOU FEEL UNWELL, seek medical advice (show the label where possible)

Environmental Protection
To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements
DO NOT ALLOW DIRECT SPRAY from ground crops sprayers to fall within 5m of the top of the bank of a static or flowing waterbody, unless a Local Environmental 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 Environmental Risk Assessment for Pesticides (LERAP) scheme. A LERAP must be carried out in accordance with CRD published guidance before each spraying operation from a ground crop sprayer. The results of the LERAP must be recorded and kept available for inspection for three years.
DO NOT CONTAMINATE SURFACE WATERS OR DITCHES, with chemical or used containers.
Livestock must be kept out of treated areas IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE ‘DIRECTIONS FOR USE’
Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

Storage and disposal
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
KEEP OUT OF REACH OF CHILDREN.
KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.
WASH OUT CONTAINER THOROUGHLY and dispose of safely.
DO NOT RE-USE CONTAINER for any purpose.
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

- DO NOT roll or harrow within a week of spraying.
- DO NOT mow within four days of application.
- The first four mowings after treatment must be composted for at least 6 months after use.
- DO NOT treat newly established grass less than one year old.
- DO NOT treat grass suffering from drought, disease, during freezing conditions when rain is imminent or other adverse factors.
- Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.
- DO NOT spray in windy weather, avoid drift onto neighbouring crops, especially beans, beet, brassicas, carrots, legumes, lettuce and tomatoes which are very susceptible.
- DO NOT apply before undersowing.
- WASH EQUIPMENT thoroughly immediately after use. Rinse with water three times, drain and allow to dry. Traces of herbicide left in the sprayer may damage susceptible crops if these are subsequently sprayed using the same equipment.
- Do not apply in volumes less than 200 litres of water per hectare.
# WEEDS CONTROLLED

## Cereals

<table>
<thead>
<tr>
<th>Susceptibility</th>
<th>Weed Species</th>
<th>Dose (L/ha)</th>
<th>Growth Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susceptible</td>
<td>Charlock</td>
<td>1.4 L/ha</td>
<td>Up to six expanded true leaves or up to 100mm across/high</td>
</tr>
<tr>
<td></td>
<td>Fat-hen</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Penny-cress, Field Mustard, Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mustard, Treacle Mustard White</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Buttercup, Corn Runch (Wild Radish)</td>
<td>1.6 L/ha</td>
<td>Cotyledons up to two expanded true leaves.</td>
</tr>
<tr>
<td></td>
<td>Shepherd’s-purse</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Volunteer oilseed rape</td>
<td>2.7 L/ha</td>
<td>Up to six expanded true leaves or up to 100mm across/high</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moderately Susceptible</td>
<td>Cabbage, Wild Fumitory, Common Gromwell, Field Hemp-nettle, Common Nettle, Small Orache, Common Poppy, Common Sow-thistle, Smooth Thistle, Creeping</td>
<td>2.7 – 3.3 L/ha</td>
<td>Controlled at cotyledons up to two expanded leaves and checked up to 100 mm across/high</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moderately Resistant</td>
<td>Bindweed, Black Chamomile, Corn Chickweed, Common Groundsel Knotgrass Pansy, Field Persicaria, Pale Mayweed, Scentless Redshank Speedwells Spurrey Corn</td>
<td>2.7 – 3.3 L/ha</td>
<td>Cotyledons up to two expanded true leaves</td>
</tr>
<tr>
<td></td>
<td>Buttercup, Creeping Cress, Hoary Shepherd’s-needle Sow-thistle, Perennial Tares (Vetches)</td>
<td>3.3 L/ha</td>
<td>Cotyledons up to two expanded true leaves</td>
</tr>
</tbody>
</table>
### Grassland and Grassland (seed crop)

<table>
<thead>
<tr>
<th>Susceptibility</th>
<th>Weed species</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Susceptible</td>
<td>Greater Plantain</td>
<td></td>
</tr>
<tr>
<td>(Consistently good control of both roots and shoots)</td>
<td>Ribwort Plantain</td>
<td></td>
</tr>
<tr>
<td>Moderately Susceptible</td>
<td>Buttercup, Creeping</td>
<td>Treat in spring or early summer</td>
</tr>
<tr>
<td>(Weeds suppressed and top-growth usually killed)</td>
<td>Buttercup, Meadow</td>
<td>Treat in spring or early summer</td>
</tr>
<tr>
<td></td>
<td>Autumn Hawkbit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cat's Ear</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cress, Hoary</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Daisy, Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Knapweed,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ragwort, Common</td>
<td>Spray in spring when in rosette stage before flower spike starts to grow</td>
</tr>
<tr>
<td></td>
<td>Rush, Compact</td>
<td>Spray in April to June. Cut and remove stems either four weeks before or after treatment.</td>
</tr>
<tr>
<td></td>
<td>Rush, Soft</td>
<td>Treat as Compact Rush</td>
</tr>
<tr>
<td></td>
<td>Self Heal</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thistle, Creeping</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thistle, Spear</td>
<td></td>
</tr>
<tr>
<td>Moderately Resistant</td>
<td>Buttercup, Bulbous</td>
<td>Treat in autumn on new leaf or in spring</td>
</tr>
<tr>
<td>(Top growth only may be killed)</td>
<td>Colt’s Foot</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dock, Curled</td>
<td>Treat pre flowering or after defoliation</td>
</tr>
<tr>
<td></td>
<td>Horsetails*</td>
<td>Shoots only controlled, apply in May - June</td>
</tr>
<tr>
<td></td>
<td>Meadowsweet</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nettle, Common*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rush, Hard</td>
<td>Treat as Compact Rush</td>
</tr>
<tr>
<td></td>
<td>Sorrel, Common</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sorrel, Sheep’s</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sow Thistle, Perennial*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dwarf Thistle</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yarrow</td>
<td></td>
</tr>
</tbody>
</table>

* The species marked * should be treated at 3.3 L product/ha to achieve the level of control indicated. All other species should be treated at 2.7 L product/ha

Where ragwort is present users should consult the Code of Practice on How to Prevent the Spread of Ragwort. Ragwort plants sprayed with this herbicide are more palatable and contain higher levels of toxins. Animals should be excluded from treated areas until any ragwort has completely
recovered or died and there is no visible sign of the dead weed. Do not include treated ragwort in hay or silage crops.
CROP SPECIFIC INFORMATION

Always spray when the crop is actively growing.

Winter wheat

Application Rate: 1.4 to 3.3 L/ha (see weed susceptibility table)
Maximum total dose: 3.3 L/ha

Apply in the spring from the leaf sheath erect stage to before third node detectable (GS33).

Application under very hot conditions can cause ear damage if the crop comes under stress after application.

All varieties of winter wheat may be treated

Apply in 200 - 400 L water/ha.

Spring wheat and winter and spring barley, oats and rye.

Application Rate: 1.4 to 3.3 L/ha (see weed susceptibility table)
Maximum total dose: 3.3 L/ha

For all cereals above apply in the spring before 1\textsuperscript{st} node detectable stages (GS 31).

- WINTER BARLEY, OATS AND RYE: Spray in the spring from the leaf sheath erect stage (GS 30).
- SPRING WHEAT, BARLEY AND RYE: Spray after the crop has developed five fully expanded leaves (GS 15).
- SPRING OATS: Spray after the crop has developed one fully expanded leaf (GS 11).

Application under very hot conditions at later timings can cause ear damage if the crop comes under stress after application.

Barley is particularly subject to malformation and particular attention must be paid to the correct growth stage if this crop is intended for malting.

All varieties of spring wheat, winter and spring barley, oats and rye may be treated.

Apply in 200 - 400 L water/ha.

Undersown cereals

Do not apply to cereals undersown with lucerne, peas or safoin.

Agritox (Article 68 comments 28Oct14) AgritoxUK/0116
Nufarm UK Limited
Red Clover
Application rate: 1.4 L product/ha
Maximum total dose: 1.4 L product/ha

Application should be made when the red clover has at least two trifoliate leaves (GS 12), and the cereal crop is at the correct growth stage, as listed above.

Only apply if the weeds canopy is dense and covers most of the clover seedlings. Some damage to red clover must be expected, but this will normally be out-grown. Do not apply if white clover is present.

Grasses
Application rate: 2.7 L product/ha
Maximum total dose: 2.7 L product/ha

Application should be made when the grasses have begun to tiller, and the cereal crop is at the correct growth stage, as listed above.

Apply in 200 - 400 L water/ha.

Grassland
Application rate: 2.7 to 3.3 L product/ha
Maximum total dose: 6.6 L product/ha

Use on established grassland and leys not less than 1 year old. Apply AGRITOX in spring and summer when growing conditions are favorable. Spray grass for hay or silage 3-4 weeks before cutting. Clover may be checked but recovers by the following spring. Follow-up applications may also be needed where new seedling weeds appear. An interval of 4-6 weeks should elapse between successive applications if weeds persist.

A top dressing ten days before treatment is recommended to assist kill of weeds and subsequent recovery of the sward. Annual weed species will be best controlled if spraying is done while the majority of weeds are seedlings. Perennial weeds should be sprayed during their period of maximum growth, usually when the flower buds are beginning to form. The response of perennial weeds to treatments are often variable with only the aerial parts killed, though often suppression will occur. The recovery of the weeds will be reduced if the grass is growing vigorously at the time of treatment.

Apply in 200 - 400 L water/ha.

Grassland (seed crops)
Application rate: 3.2 L product/ha
Maximum total dose: 3.2 L product/ha

The safe period for treatment occurs when the grasses have at least four leaves and have begun to tiller but at least five weeks preceding ear emergence. The best time varies according to the species and strain of grass concerned. Do not apply more than 3.2 L/ha of AGRITOX.

Apply in 200 - 400 L water/ha.

**MIXING AND SPRAYING**

Half-fill the tank with clean water and add the required quantity of AGRITOX, and add the remainder of the clean water with gently agitation which should continue until the contents are thoroughly mixed. Triple rinse containers with water and add washing to the spray tank. Spray using a MEDIUM/COARSE spray (BCPC).

**TANK CLEANING**

WASH EQUIPMENT thoroughly immediately after use. Rinse with water three times, drain and allow to dry. Traces of herbicide left in the sprayer may damage susceptible crops if these are subsequently sprayed using the same equipment.

**COMPATIBILITY**

AGRITOX can be tank-mixed with other pesticides, please consult your Nufarm distributor or Nufarm UK Limited.

**RESISTANCE MANAGEMENT**

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 to be resistant to a herbicide if it survives a correctly applied treatment at the recommended dose. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

**COMPANY ADVISORY INFORMATION**

This section is not part of the Product Label under the Plant Protection Products Regulations 2011. It provides additional advice on product.

**ACKNOWLEDGMENTS**

Agritox (Article 68 comments 28Oct14) AgritoxUK/0116
Nufarm UK Limited
TERMS AND CONDITIONS OF SUPPLY, SALE OR USE
All goods supplied by Nufarm UK Ltd. are high grade and we believe them to be suitable for the purpose for which we expressly supply them; but as we cannot exercise any control over their mixing, use or 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 our Associate Companies for any damage or injury whatsoever arising from their storage, handling, re-application or use. These conditions cannot be varied by our staff, our agents or the re-sellers of the product whether or not they supervise or assist in the use of such goods.