

Sharp™

TURBO



GROUP 15 | 12 HERBICIDE

MAPP 19283 FLUFENACET 400 G/L AND DIFLUFENICAN 200 G/L

SHARP TURBO is a contact and residual herbicide for pre- and post-crop emergence use against a range of annual grasses and broad-leaved weeds in winter wheat and winter barley.

A suspension concentrate formulation containing 400 g/l flufenacet and 200 g/l diflufenican.

Safety Data Sheet for this product
scan the QR code or use the weblink:
<https://bit.ly/34L0QGS>
Alternatively, contact your supplier.



FOR PROFESSIONAL USE ONLY



Warning

Harmful if swallowed.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

Contains flufenacet. May cause an allergic skin reaction.

Very toxic to aquatic life with long lasting effects.

Wear protective gloves/protective clothing/eye protection/face protection.

DO NOT EAT, DRINK OR SMOKE when using this product.

If exposed or concerned: call a POISON CENTRE or doctor/physician.

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 instructions for use.

PROTECT FROM FROST
SHAKE WELL BEFORE USE

Transport Information
UN 3082 ADR/RID Class: 9 Packaging Group: III

net contents
5LE

Marketing Company Authorisation Holder
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crophthetics

08/21

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This leaflet is part of the approved label

For advice on medical emergencies, fires or major spills telephone the
National Chemical Emergency Centre on 01865 407333

IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL HERBICIDE

Crops/ situations	Maximum individual dose (litres product/ha)	Maximum number of applications	Latest time of application	Aquatic buffer zone distance (metres)
Wheat (winter)	0.3	1 per crop	Before 31st March in the year of harvest and before third tiller stage (GS 23)	5
Barley (winter)	0.3	1 per crop	Before 31st of March in the year of harvest and before fourth tiller stage (GS 24)	5

Other specific restrictions:

This product qualifies for inclusion within the Local Environmental 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 HSE'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.

READ THE LABEL BEFORE USE. USING THE PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

THE (COSHH) CONTROL OF SUBSTANCE HAZARDOUS TO HEALTH REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK.

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 CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES 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 they provide an equal or higher standard of protection.
WHEN USING DO NOT EAT, DRINK OR SMOKE.

IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).
Avoid contact with skin.

Environmental Protection

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 protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

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

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 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. Aim spray away from water.



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 HSE'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.

Storage and Disposal

DO NOT RE-USE CONTAINER FOR ANY PURPOSE. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.

KEEP OUT OF REACH OF CHILDREN.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times.

Add washings to sprayer and dispose of safely.

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.

Method of application

Tractor mounted horizontal boom sprayer.

A spray pressure of at least 2 bar is advised.

Apply SHARP TURBO in 200-400 litres of water per hectare.

Use the higher volume where crop or weed foliage is dense.

Apply as a medium spray quality.

Good even spray coverage of soil and weeds is essential.

Ensure that spray swaths do not overlap. To prevent damage, care must be taken to avoid drift onto neighbouring crops.

RESTRICTIONS

DO NOT treat undersown cereals or those due to be undersown.

Avoid treating crops suffering from stress as a result of drought, waterlogging, grazing, pests or disease attack, nutrient deficiency, soil compaction or other factors reducing crop growth.

Adverse crop effect (paling, reduction in vigour may occur when there is very wet weather before and after application, particularly on crops grown on light free draining soils or where soils become waterlogged. These effects are typically transitory in nature and will have no adverse effect on crop yield in most cases.

DO NOT use on waterlogged soils or soils prone to waterlogging.

DO NOT use on sands or very light soils or very stony or gravelly soils, as there is a risk of crop damage.

Shallow drilled crops must only be treated post-emergence.

DO NOT treat broadcast crops as uncovered seed may be damaged.

DO NOT soil incorporate.

Avoid spraying during periods of prolonged or severe frosts as sharp or severe frosts following application may cause transitory discoloration or scorch from which the crop will normally recover. DO NOT use on soils containing more than 10% organic matter.

DO NOT disturb the soil after application (e.g. by harrowing or rolling).

WEEDS CONTROLLED

Strains of some annual grasses (e.g. black-grass, wild oats and Italian rye-grass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted.

Guidelines have been produced copies are available from your distributor, crop advisor or product manufacturer.

WEEDS CONTROLLED AT 0.3 L/ha

Annual meadow grass	Susceptible pre and post-emergence up to GS 12 (2 leaf stage)
Field pansy	Susceptible pre and post-emergence up to GS 12 (2 leaf stage)
Common field speedwell	Susceptible pre and post-emergence up to GS 12 (2 leaf stage)
Ivy leaved speedwell	Moderately Susceptible pre-emergence
	Susceptible post-emergence up to GS 12 (2 leaf stage)
Common chickweed	Susceptible pre- and post-emergence up to early branching stage (up to 5 cm)
Mayweeds	Susceptible pre and post-emergence up to GS 12 (2 leaf stage)
Groundsel	Susceptible pre-emergence
Field forget-me-not	Susceptible pre-emergence
Shepherd's purse	Susceptible pre-emergence and post-emergence up to GS 12 (2 leaf stage)
Volunteer oilseed rape*	Moderately Susceptible pre-emergence up to GS 12 (2 leaf stage)
Red dead nettle	Susceptible pre and post-emergence up to GS 12 (2 leaf stage)
Hen-bit dead nettle	Susceptible pre and post-emergence up to GS 12 (2 leaf stage)
Cleavers**	Moderately Resistant pre-emergence
	Moderately Susceptible post-emergence up to and including GS 11 (1 whorl stage)

* Levels of control provided can be variable. In particular strongly established volunteers of oilseed rape (particularly those beyond the 2 leaf stage) may survive and require a follow-up treatment with an appropriate post-emergence herbicide.

** Useful levels of cleaver control can be achieved, but a follow-up treatment with a specific cleaver herbicide may be required in some situations.

Established perennial grasses and broad-leaved weeds growing from rootstocks will not be controlled by SHARP TURBO.

Speed of activity can be slow and is dependent on temperature and growing conditions. Activity can be slow under cool conditions and the final level of weed control may take some time to appear. Some soil moisture is required for SHARP TURBO to be activated. Moist soil at and after application is required to give the best results. Best results will be obtained if rain falls within 7 days of application. Residual control may be reduced under prolonged dry conditions.

CROP SPECIFIC INFORMATION

Good weed control depends on burying any trash or straw before or during seedbed preparation. Seedbeds must have a firm, fine tilth. Loose or cloddy seed beds must be consolidated otherwise crop damage may result due to inadequate seed cover. For pre-emergence treatments, seed should be covered with a minimum of 32 mm of settled soil. Use at a rate of 0.3 litres of product/ha. Apply via a horizontal boom sprayer. Apply in 200–400 L/ha as a MEDIUM spray (BCPC category). Use the higher volume where crop or weed foliage is dense. A spray pressure of at least 2 bar is advised. Good, even spray coverage of soil and weeds is essential. Ensure that spray swaths do not overlap.

To prevent damage, care must be taken to avoid drift onto neighbouring crops.

Winter wheat (all varieties): Apply pre or post-emergence up to and including second tiller stage (GS 22).

Winter barley (all varieties): Apply pre or post-emergence up to and including third tiller stage (GS 23).

Where the first application is made after GS 12 of the crop, the latest time of application is 31st December.

A single application of 0.3 L/ha that is not part of a sequence may be made at any time up to and including GS 22 (winter wheat) or GS 23 (winter barley) of the crop and before 31st March.

FOLLOWING CROPS and CROP FAILURE

Plough or cultivate to at least 15 cm before planting following crops of oilseed rape, field beans and edible brassicae.

Ensure thorough soil mixing before planting. Plough to at least 15 cm before planting peas, sugar beet, carrots and onions. Ensure thorough soil mixing before planting. Wheat, barley and potatoes can be drilled without any special cultivations. In the event of crop failure, for any reason, plough to at least 15 cm and sow only wheat, barley and potatoes. An interval of 12 weeks should elapse between treatment and subsequent sowing of spring wheat and spring barley.

Where SHARP TURBO and other products containing diflufenican are applied to successive cereal crops, levels of diflufenican (DFF®) will build up in the soil. Ploughing or cultivation, with complete inversion of the furrow, must take place before planting any following non-cereal crop, except potatoes. Even where ploughing or cultivation is carried out there may still be a risk of damage to following crops of onions, leek and related species, or clover. As a precaution, users who rent out their land to growers of these crops should not use DFF-containing products in successive years before renting out the land.

MIXING

Shake the container well before use. Half-fill the spray tank with clean water and add the required amount of SHARP TURBO.

Wash out the container and add the washings to the spray solution, before topping up with clean water. Maintain continuous agitation of spray solution. Do not leave the sprayer filled with the spray solution standing for long periods.

Wash out the sprayer thoroughly after use using a wetting agent or proprietary tank cleaner with two rinses.

COMPATIBILITY

SHARP TURBO may be applied as a tank-mix with a range of products. Contact Cropthetics Ltd for compatibility information on specific tank-mixes. Full manufacturer's instructions must be followed for each tank-mix component.

RESISTANCE

Strains of some annual grasses (e.g. blackgrass, wild oats and Italian ryegrass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer. Key aspects of the SHARP TURBO Resistance Management Strategy are:

- ALWAYS follow WRAG guidelines for preventing and managing herbicide resistant weeds.
- DO NOT use SHARP TURBO as the sole means of grass weed or broad-leaved weed control in successive groups.
- ALWAYS use grass and broad-leaved weed herbicides with alternative modes of action throughout the cropping rotation.
- ALWAYS monitor weed control effectiveness and investigate any odd patches of poor grass or broad-leaved weed control. If unexplained, contact your agronomist who may consider a resistance test appropriate.

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 or 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.

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