

MONITOR®

Herbicide



MAPP 18887

PCS No. 02076

**A water-dispersible granule containing 80% w/w sulfosulfuron
A foliar and soil-acting herbicide for the moderate control of Brome and
Couch (Scutch) grasses, and control of Cleavers and other broad-leaved
weeds in winter wheat.**

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 or Warnings

- To avoid the build-up of resistance do not apply this or any other products containing an ALS inhibitor herbicide with claims for control of grass weeds more than once per crop.
- Do not apply MONITOR to winter wheat crops previously treated with any other sulphonylurea herbicide such as Quantum™, Ally®, Harmony M®, Lexus®, or Eagle®. Do not apply any of these products in winter wheat crops treated with MONITOR, either as a tank-mixture or subsequently.
- MONITOR should not be applied to winter wheat under-sown with grass, clover or other legumes, or any other broad-leaved crops. MONITOR should only be used where damaging populations of competitive weeds have emerged. In the absence of these populations MONITOR may cause some yield reduction.
- Do not use straw from treated crops as a mulch for any other crop.
- Take care to avoid drift onto crops and other plants outside the target area.
- Failure to thoroughly clean the sprayer after use can result in damage to sensitive crops during subsequent use of the equipment. Follow washout and cleaning instructions carefully.

Weeds controlled

MONITOR is recommended for use as a spring post-emergence treatment in all cultivars of winter wheat and will check the growth of Couch (Scutch), reducing its competitive effect. MONITOR can give good control of a range of Brome grasses, including Soft, Meadow, Rye and Barren (Sterile) Brome when applied up to the specified growth stages, with a check to growth once the most susceptible growth stages have been exceeded. Cleavers are also controlled when applied at susceptible growth stages; later applications may result in a check to growth, and additional treatments/control measures may be needed for complete control. Broad-leaved weeds controlled include Mayweed and Chickweed. The addition of a recommended surfactant is essential for good results.

Climate

The best results from MONITOR are from treatments made when annual weeds are small and growing actively, in the early spring. Control of Common Couch may be reduced if treatment is made when this weed is small (e.g. two leaves or fewer emerged). Dry weather conditions for any extended period before or after application may result in reduced weed control. Avoid application of MONITOR to crops under stress or in climatic conditions that cause dormancy in the weeds; these include severe drought, water-logging, frost and strong, cold winds.

Application rates and weed stages

CROP:	Winter wheat
VARIETIES:	All
APPLICATION TIMING:	
Apply post-emergence of the crop only in the spring (after February 1st), from the three expanded true leaf stage (G.S. 13) onwards up to flag leaf ligule just visible (G.S. 39), provided the recommended weed stages have not been exceeded.	
Dose:	25 g/hectare
PLUS	<i>Additional recommended surfactant</i>
	UK: Frigate 0.2% v/v spray volume
	Ireland: Actipron, Arma or Torpedo Consult the specific surfactant label for appropriate rate

Weeds controlled	UK recommendations			Ireland recommendations		
Broad-leaved weeds	Common Chickweed	S	Up to 100mm across/high	Common Chickweed*	MS	Up to 6 leaves
	Scentless Mayweed	S	Up to 100mm across/high	Mayweed	MS	Up to 4 leaves
	Shepherds Purse	S	Up to 25mm across/high	Cleavers	MS	Up to 15cm tall
	Cleavers	S	Up to 3 whorls			
	Charlock	S	Six expanded true leaves			

Weeds controlled	UK recommendations			Ireland recommendations		
Grass weeds	Soft Brome	S	Up to 2nd node detect.	Meadow Brome	S	Up to mid tillering
	Meadow Brome	S	Up to 2nd node detect.	Sterile Brome	MS	Up to early tillering
	Rye Brome	S	Up to 2nd node detect.	Scutch	Suppression	Up to early tillering
	Barren Brome	MS	Up to 2nd node detect.			
	Great Brome	MS	Up to 2nd node detect.			
	Loose Silky-bent	S	Up to 2nd node detect.			
	Common Couch	MC	Up to 2nd node detect.			
	Onion Couch	MS	Up to 1st node detect.			
SPECIFIC FOLLOW-UP TREATMENTS WITH OTHER PRODUCTS MAY BE NEEDED FOR MODERATELY SUSCEPTIBLE WEEDS AND THOSE MODERATELY CONTROLLED BY MONITOR			ALTERNATIVE FOLLOW-UP TREATMENTS MAY BE NEEDED FOR MODERATELY SUSCEPTIBLE WEEDS, AND THOSE SUPPRESSED BY MONITOR *For the control of Common Chickweed, this product must always be applied in a mixture with an alternate mode of action herbicide at recommended rates.			
SUSCEPTIBILITY RATINGS S = Susceptible. MS = Moderately susceptible. Results variable but good control can be seen. MC/Suppression = Moderate control. Reduction in plant biomass but incomplete control - only partial control of regrowth is likely to be seen in the following year.						

Resistance

This product contains sulfosulfuron which is an ALS inhibitor, also classified by the Herbicide Resistance Action Committee as 'Group B'. Use only as part of a resistance management strategy that includes cultural methods of control and does not use ALS inhibitors as the sole chemical method of grass-weed control.

Strains of some annual grasses (e.g. Black-grass, Wild oats and Italian Ryegrass) and broad-leaved weeds (e.g. Chickweed and Poppy) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing herbicide resistant grass weeds should be adopted. Guidelines have been produced by the Weed Resistance Action Group. Copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

Applications of Monitor must form part of an integrated weed and resistance management strategy. This should include the following measures:

- Rotational use of herbicides with differing modes of action.
- The use of Monitor in sequence with other products with different modes of action that are active against the same target.
- Cultural control methods to reduce herbicide selection pressure.

Crop specific information

MONITOR can be used on all varieties of winter wheat (excluding Durum wheat).

Following crops

SUBSEQUENT AUTUMN AND SPRING CROPPING IN NORMAL ROTATION

Subsequent autumn cropping:

Crops of winter wheat, winter oilseed rape and winter field beans may be drilled in the autumn after application of MONITOR on any soil type. Crops of winter barley may be planted in the autumn after application of MONITOR on soil types with less than 60% sand in their composition i.e. NOT on sands, loamy sands, sandy clays, sandy clay loams and sandy clays. Drilling winter barley in these soil types after application of MONITOR could result in yellowing and stunting of the crop, with possible reductions in yield.

Subsequent spring cropping:

Crops of spring wheat, spring barley, spring peas and spring beans, spring oilseed rape and potatoes may be drilled as subsequent spring crops following application of MONITOR. Sugar beet or any other following crop not stated above must not be drilled until the second spring following an application of MONITOR.

Mixing and spraying

Equipment

Apply MONITOR through a hydraulic sprayer

Preparation for Use

Measure the required quantity of product carefully, using the container supplied. Any remaining herbicide should be resealed in the initial container and stored in a dry place. Add clean water to the spray tank until half-full: add the required amount of MONITOR, wash and rinse the container thoroughly when empty, adding the washings to the spray tank, then add the required amount of additional surfactant (see Compatibility section), and top up with water to the required level. Agitate the spray liquid continuously before spraying. Apply immediately.

Volume

Apply in a volume rate of 200-250 litres/hectare as a MEDIUM spray (BCPC category). Good, even spray coverage of weeds is essential. Ensure that sprayed swaths do not overlap.

Spray tank cleaning

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN WINTER WHEAT, THOROUGHLY CLEAN ALL SPRAY EQUIPMENT IMMEDIATELY AFTER SPRAYING MONITOR, INCLUDING INSIDE AND OUTSIDE OF LID, USING ALL CLEAR® EXTRA SPRAYER CLEANER ACCORDING TO THE LABEL INSTRUCTIONS. ALTERNATIVELY USE THE FOLLOWING PROCEDURE:

- Immediately after spraying, drain tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
- Rinse inside of tank with clean water and flush through booms and hoses using at least one-tenth of the spray tank volume. Drain tank completely.
- Half fill tank with clean water and add 1/3 litre household ammonia (contains 9.5% ammonia) for each 100 litres of tank volume. (Equivalent amounts of alternate strength ammonia solutions can be used providing the final concentration in the full tank is 0.03%). 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.
- Nozzles and filters should be removed and cleaned separately with ammonia solution at the same concentration as used in the sprayer.
- 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.
- For the disposal of washings, follow the UK DEFRA/HSC/NAW publication "Code of Practice for using Plant Protection Products". Do not spray onto sensitive crop or land intended for cropping with sensitive crop.
NOTE: If it is not possible to drain the tank completely, step 3 must be repeated before going on to step 4.

Compatibility

Additional surfactant is essential for full activity of MONITOR. Please refer to the Weed Control table above for details.

Additional adjuvants/surfactants may have been approved since this label was printed. Please contact your distributor for further advice.

Ireland only:

MONITOR is compatible and may be applied in a two way tank mix with the following products:

Herbicides: Starane (Up to 0.5l/ha) Fungicides- Opus, Amistar, Sportak 45), Unix
Growth Regulators: Moddus, Meteor, Chlormequat. Only up to a maximum of 920 g/ha of Chlormequat.

The addition of a recommended surfactant is essential for good results.

Consult your distributor about compatibility of products not listed. Do not mix with acidifiers, unlisted trace elements and ethephon-based products.

UK ONLY: COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Products Regulations 1995 and provides additional advice on the product.

General

To maximise the safety of Monitor to the operator, consumer and environment, the label recommendations and the DEFRA/HSC/NAW publication "Code of Practice for using Plant Protection Products" of January 2006 should be adhered to.

Disposal

Follow the guidance on the disposal of surplus spray solution, tank washings, concentrate and containers as given in Section 5 of the DEFRA/HSC/NAW publication "Code of Practice for using Plant Protection Products".

LERAP Guidance

Operator guidance on LERAP is available from:

- the CRD's website (www.pesticides.gov.uk) or
- the CPA's Best Practice Guide (LERAP Scheme) from the Voluntary Initiative library (www.voluntaryinitiative.org.uk)

Environmental Information Sheet

An Environmental Information Sheet for this product is available from the CPA's Voluntary Initiative website (www.voluntaryinitiative.org.uk)

Trade Mark References

MONITOR® is a registered trademark of Sumitomo Chemical Co.

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SUMITOMO CHEMICAL (U.K.) PLC

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

Batch number/
production date

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