

UNIVERSE

A post-emergence herbicide for use on all varieties of WINTER AND SPRING WHEAT, BARLEY, OATS, RYE, TRITICALE and SPELT and DURUM WHEAT and these crops UNDERSOWN WITH GRASS for the control of CLEAVERS, COMMON CHICKWEED and other broad-leaved weeds.

MAPP 20557

An emulsifiable concentrate containing 144 g/litre (13.85% w/w) fluroxypyr-meptyl (100 g/litre acid equivalent), 80 g/litre (7.69% w/w) clopyralid and 2.5 g/litre (0.24% w/w) florasulam.

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

SHAKE WELL BEFORE USE
PROTECT FROM FROST

UNIVERSE

Hydrocarbons, C10-C13, aromatics, <1% naphthalene



DANGER

May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
Harmful if inhaled.

Very toxic to aquatic life with long lasting effects.

Wear protective gloves/clothing/eye/face protection.
IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do - continue rinsing.
Collect spillage.

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.

24-HOUR EMERGENCY TELEPHONE NUMBER: +44 (0) 1865 407333

IMPORTANT INFORMATION FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops/situations	Maximum individual dose: (L product / ha)	Maximum number of treatments:	Latest time of application
Barley (winter), barley (winter) (undersown with grass), rye (winter), rye (winter, undersown with grass), spelt (winter), spelt (winter) (undersown with grass), triticale (winter), triticale (winter) (undersown with grass), wheat (winter), wheat (winter) (undersown with grass)	1	1 per crop	Before flag leaf sheath extending (GS39)
Barley (spring), barley (spring, undersown with grass), rye (spring) (undersown with grass), wheat (spring), wheat (spring, undersown with grass), Durum Wheat, Durum Wheat (undersown with grass)	1	1 per crop	Before flag leaf sheath extending (GS39)
Oats (winter), oats (winter, undersown with grass), oats (spring), oats (spring, undersown with grass).	1	1 per year	Before second node detectable stage (GS31)

Other Specific Restrictions:

Applications of UNIVERSE to cereals must only be made between 1st February and 30th June.

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

The total amount of florasulam applied to a cereal crop must not exceed 7.5 g.

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.

SAFETY PRECAUTIONS

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

Operators must WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES (NEOPRENE OR NITRILE*) 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.

DO NOT BREATHE SPRAY.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before eating and drinking or smoking and after work.

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

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

Storage and disposal

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

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

DO NOT RE-USE CONTAINER for any purpose.

Pack size: 0.030 - 20 litres
Batch number: See container



Sharda Agrochem LTD

Authorisation holder:
Sharda Agrochem Limited
201 Cervantes House 5-9 Headstone Road
Harrow, Middlesex HA1 1PD, United Kingdom

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.

GENERAL INFORMATION: UNIVERSE herbicide has activity against a range of broad-leaved weeds. The ideal timing for application is when the weeds are small and actively growing. The effectiveness of UNIVERSE may be reduced when soils are very dry.

NOTES:

Avoid overlapping spray bouts.

Do not use any plant material treated with UNIVERSE for composting or mulching.

Do not use manure from animals fed on crops treated with UNIVERSE for composting.

Do not spray when crops are under stress from cold, drought, pest damage, nutrient deficiency etc.

Do not roll or harrow 7 days before or after application.

Take extreme care to avoid drift onto crops and non-target plants outside the target area.

FOLLOWING CROPS:

Straw from cereals sprayed with UNIVERSE may contain residues which could damage certain crops. To avoid such risk bale and cart away the straw. Where straw is chopped and incorporated do not plant winter beans in the same year as treatment with UNIVERSE.

UNIVERSE residues in plant tissues (including manure and digestate) which have not completely decayed may affect succeeding susceptible crops. If treated crop remains have not fully decayed by the time of planting following crops then avoid planting: peas, beans and other legumes; carrots and other umbellifers; potatoes; lettuce and other composite; glasshouse and protected crops. Crops that can be sown in the same year as a crop treated with UNIVERSE is harvested: Cereals, oilseed rape¹, grass and vegetable brassicas as transplants.

¹Vigour reductions may be seen in following crops of oilseed rape after a dry summer. This will be outgrown and will not result in yield loss.

Crops that can be sown in the calendar year following treatment with UNIVERSE: Cereals, oilseed rape, field beans, grass, linseed, peas, sugar beet, potatoes, maize, clover (for use in grass/clover mixtures), carrots and vegetable brassicas as transplants.

JOINT APPLICATION: A joint application is the use of a product in tank mixture or sequence with another product.

IMPORTANT NOTE: Joint applications should only be made within the label recommendations of every product in the application.

Only one other product with an ALS inhibitor mode of action may be applied to a cereal crop treated with UNIVERSE. However a further application of another product containing florasulam may also be made **providing the maximum total dose of florasulam is not exceeded**. Products containing fluroxypyr and/or clopyralid must not be tank mixed with UNIVERSE.

UNIVERSE may be applied in joint application to the same cereal crop with one of the following ALS products:

Alias SX	Hunter ^{1,2}
Ally Max SX	Hussar
Ally SX	Inka SX
Answer SX	Jubilee SX
Atlantis OD	Lorate
Atlantis WG	Mozaic SX
Avocet	Nevada ^{1,2}
Avro SX	Omnera ² LQM
Barton WG ¹	Pacifica
BiPlay SX	Palio ¹
Boxer ¹	Parana
Broadway Star ¹	Pennant
Calibre SX	Pinnacle
Chekker	Presite SX

Chimera SX	Provalia ¹ LQM
Concert SX	Quantum SX
Cleancrop Mondial	Ratio SX
DP 911 SX	Refine Max SX
Finish SX	Seduco
Garbel ^{1,2}	Simba SX
GF-184 ^{1,2}	Slalom ^{1,2}
Gropper SX	Spitfire ^{1,2}
Hamlet	Starane XL ^{1,2}
Harmony M SX	Taxi
Harmony SX	TBM 75 WG
Hatra	Traton SX
Horus	Zypar ²

¹The maximum total dose of florasulam applied to the crop must not exceed 7.5 g.

²Products containing fluroxypyr and/or clopyralid must not be tank mixed with UNIVERSE.

Apart from these specific joint applications UNIVERSE must NOT be applied with any other product containing an ALS-inhibitor for example arimidosulfuron or triflurosulfuron.

CROP FAILURE

In the event of a crop failure in the spring with UNIVERSE only the following crops may be planted: spring wheat, spring barley, spring oats, maize or ryegrass.

RESISTANCE

UNIVERSE contains active ingredients with differing modes of action (HRAC Groups 4+0) and therefore the risk of resistance building is reduced. However as florasulam is an ALS inhibitor there is a risk of resistance building to this active ingredient and so precautions should be taken to minimise the risk. Therefore avoid using single mode of action herbicides, such as ALS herbicides in the same field over a number of years. Growers are advised to apply products containing herbicides with different modes of action or use sequences or tank mixtures where two or more components are active against the target weeds.

CROPS: UNIVERSE can be applied in the spring on all varieties of winter and spring cereals.

SOIL: UNIVERSE may be used on all soil types.

APPLICATION TIMING

Winter sown cereals (wheat, barley, rye, triticale, spelt)
UNIVERSE should be applied from the 1st February once the crop has reached 3 leaves (GS13), up to before the flag leaf sheath extending stage (GS 39).

Spring sown cereals (wheat, barley, rye, Durum wheat)
UNIVERSE should be applied from the 1st February once the crop has reached 3 leaves (GS13), up to before the flag leaf sheath extending stage (GS 39).

Winter and spring sown oats

DAKOTA should be applied from the 1st February once the crop has reached 3 leaves (GS13), up to before second node detectable stage (GS31).

Winter cereals, except oats, undersown with grass

UNIVERSE should be applied from 1st February once the crop has reached 3 leaves (GS13) up to before the flag leaf sheath extending stage (GS 39).

Spring cereals, except oats, undersown with grass

UNIVERSE should be applied from 1st February once the crop has reached 3 leaves (GS13), up to before the flag leaf sheath extending stage (GS 39).

Winter and spring sown oats, undersown with grass

UNIVERSE should be applied from the 1st February once the crop has reached 3 leaves (GS13), up to before second node detectable stage (GS31).

WEED SUSCEPTIBILITY AND MAXIMUM SIZE CONTROLLED

One application of 1.0 L/ha of UNIVERSE will control all susceptible emerged weeds. For optimum performance it is important to check the size of weeds before application.

Weed	Maximum weed size controlled
Cleavers	120-150 mm
Common chickweed	100 mm
Corn spurrey	2 true leaves
Creeping thistle (from seed)	4 true leaves
Field forget me not	6 true leaves
Scented mayweed	8 true leaves or rosette
Scentless mayweed	Rosette
Shepherd's-purse	4 true leaves
Volunteer oilseed rape	4 true leaves
Wild radish (Runch)	4 true leaves

APPLICATION: UNIVERSE may be applied through tractor-mounted hydraulic sprayers or knapsack sprayers providing they are in good working order and have been calibrated according to the manufacturers' recommendations. Do not apply through CDA applicators.

WATER VOLUME: Apply UNIVERSE in 80 to 250 litres of water per hectare. The lower volume must only be used in open crops on small weeds.

MIXING: Half fill the spray tank with water and add the required amount of UNIVERSE. Fill up the spray tank, agitating continuously to ensure thorough mixing, and maintain agitation until spraying is complete. Use only clean water for mixing.

SPRAY QUALITY: Apply UNIVERSE as a MEDIUM spray as defined by the BCPC system

TANK MIXTURES: Where tank mixes are used, and unless directed otherwise, the preferred order of addition of products to the spray tank is as follows: water dispersible granules, wettable powders, suspension concentrates (flowables), emulsifiable concentrates, solution concentrates. Each product should be added to the half-full sprayer and be fully dispersed before the addition of the next product.

TANK CLEANING: To avoid subsequent injury to crops other than cereals, all spraying equipment must be thoroughly cleaned both inside and out, using a proprietary spray cleaner (i.e. All Clear Extra) as follows:

1. Immediately after spraying thoroughly and completely rinse all internal surfaces.
2. Rinse inside of tank with clean water and flush through spray lines and in-line strainers using at least one tenth of the spray tank volume. Drain tank completely.
3. Fill tank with clean water (minimum 10% of tank capacity) and add tank cleaner at the recommended rate and agitate for 15 minutes. Flush the booms and hoses and drain tank completely.
4. Nozzles and filters should be removed and cleaned separately with tank cleaning solution.
5. Rinse the tank with clean water and flush through the spray lines using at least one tenth of the spray tank volume. Drain tank completely.
6. For disposal of washings, follow The 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 onto step 4.

COMPANY ADVISORY INFORMATION: The following information does not form part of the product label under the UK Plant Protection Products Regulations. It provides additional advice on product use at the discretion of Sharda.

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. 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.