



BANDERA[®]

HERBICIDE

MAPP 20814

GROUP 2 HERBICIDE

BANDERA[®] is an Oil Dispersion formulation (OD) containing **40 g/L of nicosulfuron**.

It is a selective, post emergence herbicide for the control of annual grass and broad-leaved weeds in forage and grain maize.

IMPORTANT INFORMATION
FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crop	Maximum individual dose (L/ha)	Maximum number of treatments	Latest time of application
Forage and Grain Maize	1.0	1 per crop	Up to and including the 8 true leaf stage (GS18) of maize

Other Specific Restrictions

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 grass-weeds more than once to any crop

READ ALL OTHER SAFETY PRECAUTIONS AND DIRECTIONS FOR USE 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.

Approval Holder and Marketing Company:
Albaugh UK Ltd., Hamilton House, Mabledon Place
London WC1H 9BB, United Kingdom
Technical Enquiries: 0800 078 9649
www.albaugh.eu

**SHAKE WELL BEFORE USE
PROTECT FROM FROST**

Emergency Information:
CARECHEM: +44 1235 239 670 (24 hour)

Batch number and manufacturing date: see pack

[®] trademark or trade name of Albaugh, LLC or an affiliated company

 **ALBAUGH[®]**
your alternative

DIRECTIONS FOR USE

Important: The product should be applied following the principles of Good Agricultural Practice. The following instructions need to be carefully read to obtain safe and effective use of this product.

GENERAL INFORMATION

BANDERA® contains the active ingredient nicosulfuron, an ALS inhibitor belonging to the group of Sulfonylureas. BANDERA® is a selective herbicide used for post emergence applications to control annual grass and broad-leaved weeds in maize. The main route of uptake for nicosulfuron is via the leaves, and to a lesser extent via the weed roots. Following uptake, the active ingredient is rapidly distributed in the weed plants, after which growth ceases within 2-3 days. The best efficacy is achieved during conditions of rapid weed growth.

RESTRICTIONS

Do not mix with foliar or liquid fertilisers.

In the case of particularly sensitive varieties, some crop damage may be caused from which recovery may not be complete.

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

Applications should not be made to maize crops that are under stress as crop damage may result. The product should be applied at the recommended rate to a healthy crop.

Following treatment at growth stage 2-8 true leaves, mild crop yellowing/stunting/loss of vigour may be apparent for 7-14 days. Treated crops will rapidly recover from this and crop yields will not be affected.

Crop damage may result where spray overlapping occurs. If possible this should be avoided.

A strategy for managing weed resistance should be adopted as strains of key grass weeds have developed resistance to herbicides, which may result in poor weed control.

The product should not be used as the only method for grass and broad-leaved weed control in successive maize crops.

Due to a high level of activity, avoid spray drift onto neighbouring crops as damage may result.

Do not use in maize crops planned for propagation.

SOIL CONDITIONS

BANDERA® can be used on light, medium and heavy soil types.

CROP SELECTIVITY

Only apply BANDERA® to maize.

WEEDS CONTROLLED:

BANDERA® can be used to control the following weeds in maize:

		Susceptibility at 0.75 l/ha
Annual grasses	Cockspar grass	S
	Italian ryegrass (from seed)	S
	Perennial ryegrass (from seed)	S
	Annual meadow-grass	S
	Rough meadow-grass	S
	Foxtail spp	S

		Susceptibility at 1.0 l/ha
Annual broadleaved weeds	Common Amaranth	S
	Shepherds purse	MS
	Fat hen	MS
	Cranesbill spp	S
	Red dead-nettle	S
	Black bindweed	MS
	Charlock	S
	Black nightshade	MS
	Common chickweed	S
	Field penny-cress	S
	Field pansy	S

When BANDERA® is applied for control of other weeds some activity against black-grass and wild-oats may be seen.

WEED RESISTANCE

BANDERA® contains nicosulfuron which is an ALS inhibitor, HRAC 'Group 2'. Products containing ALS inhibitors should not be used as the sole method of weed control in maize crops, in order to prevent the build up of resistance. BANDERA® should be used in mixture or in sequence with herbicide products with a different mode of action.

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 by the Weed Resistance Action Group and copies are available from the AHDB, CPA, your distributor, crop adviser or product manufacturer.

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.

TIMING AND RATE OF USE

BANDERA® is a post-emergence herbicide to be applied between 2 and 8 leaf stage (GS 12 to 18) of the maize crop. Target weeds should be emerged at the time of application and actively growing. The optimal timing is an application when the weeds have 2-4 leaves.

To ensure the best results it is advised to avoid application where day and night temperatures differ by more than 20°C. When hot periods of weather prevail, with > 25°C during the day, apply the product in the evening. Do not apply when rain is expected within 6 hours after application. Following longer periods of rain leave the crop untreated for at least 1 day before the application is made.

Crops	Weeds	Dose rate / ha	Number of Applications	PHI
Maize (grain and forage)	Annual grass and broadleaved weeds	1.0 l/product/ha/crop	1	-
Maize (grain and forage)	Annual grass: meadow, grasses, ryegrass, foxtalls.	0.75 l/product/ha/crop	1	-

MIXING AND SPRAYING

PREPARATION OF SPRAY SOLUTION

Shake the product container thoroughly. Fill the tank to approximately half the required volume with clean water and start the agitation. Add the required quantity of BANDERA® to the spray tank then complete the filling with clean water. Continue with agitation until spraying is completed.

APPLICATION

Apply BANDERA® with conventional boom and nozzle equipment at a water volume of 100-300 l/ha. Apply as a medium quality spray (as defined by BCPC) at a pressure of 2-3 bar (30-45 psi). Use the recommended dose rate. Do not apply when rain is expected within 6 hours after application. Avoid contaminating water surface during preparation of the spray and the tank cleaning operations. Do not re-use or incinerate empty pesticide containers.

TANK CLEANING OPERATIONS

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN MAIZE, IMMEDIATELY AFTER SPRAYING BANDERA® THOROUGHLY CLEAN ALL SPRAY EQUIPMENT, INCLUDING INSIDE AND OUTSIDE OF LID, USING THE FOLLOWING PROCEDURE:

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 an appropriate commercial tank cleaner 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 appropriate commercial tank cleaner.
 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 crop.
- NOTE: if it is not possible to drain the tank completely, step 3 must be repeated before going on to step 4.

SUCCEEDING CROPS

In the event of crop failure ploughing is required before replanting. Winter wheat and winter barley may be sown, after ploughing, in normal crop rotation. All other crops may be sown in the following spring. After a significant drought no oilseed rape or catch crops should be planted. In case of crop failure maize already treated with BANDERA® may be replaced with a following maize crop.

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under Plant Protection Products Regulations. It provides additional advice on product use at the discretion of Albaugh UK Ltd.

TERMS AND CONDITIONS OF SUPPLY, SALE AND USE

Many factors can affect or influence the activity of this product, including, but not limited to: weather and soil conditions, crop variety, treatment timing, water volume, application rates, spraying techniques, crop rotation, regional factors, and the occurrence and development of strains resistant to the active ingredient. Under certain circumstances, changes in activity or crop damage can occur. The manufacturer or supplier is unable to accept any liability in these circumstances. All goods supplied by us are of a 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 for any damage or injury whatsoever arising from their storage, handling, 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

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WARNING

H410: VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

P273: Avoid release to the environment.

P391: Collect spillage.

P501: 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.

EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.

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

SAFETY PRECAUTIONS

Operator protection

WHEN USING DO NOT EAT, DRINK OR SMOKE.
WASH HANDS AND EXPOSED SKIN before meals and after work.

Environmental protection

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.
To protect aquatic organisms respect an unsprayed buffer zone distance to surface water bodies in line with LERAP requirements.
DO NOT ALLOW DIRECT SPRAY from boom sprayers to fall within 5m of the top of the bank of any static or flowing waterbody or within 1m of a ditch which is dry at the time of application, unless a

Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone. Aim spray away from water.

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 CRD's published guidance or the statutory buffer zone must be observed. The results of the LERAP must be recorded and kept available for three years.

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 OUT OF REACH OF CHILDREN.
KEEP IN ORIGINAL CONTAINER tightly closed in a safe place.
STORE IN A COOL, DRY AND WELL-VENTILATED AREA.
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.
DO NOT RE-USE CONTAINER for any other purpose.

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