

# DANEVA®

## HERBICIDE

MAPP 20699

A suspension concentrate containing **100 g/l (9.3 % w/w) mesotrione** for the control of annual grass and broad-leaved weeds in grain and forage maize.

GROUP 27 HERBICIDE

### DANGER



UFI: PC30-COE6-C006-NY6E

H318:

H361D:

H410:

P280:

P305+P351+P338:

P310:

P391:

P501:

EUH401:

**Causes serious eye damage**

**Suspected of damaging the unborn child**  
**Very toxic to aquatic life with long lasting effects**

Wear protective gloves / eye protection  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician  
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 risk 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 Protection Equipment:

**WEAR SUITABLE PROTECTION GLOVES AND FACE PROTECTION (FACESHIELD)** when handling the concentrate. However engineering controls may replace personal protective equipment if a COSHH assessment shows that the provide an equal or higher standard of protection

**WHEN USING FO NOT EAT, DRINK OR SMOKE**

**WASH SPLASHES** from skin immediately

**WASH HANDS AND EXPOSED SKIN** before meals and after work

#### 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. 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 maintained. The results of the LERAP must be recorded and kept available for three years.

#### Storage and disposal

**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.

**KEEP IN ORIGINAL CONTAINER** tightly closed in a safe place. **EMPTY CONTAINER COMPLETELY** and dispose of safely.

**Authorisation Holder and Marketing Company:** Albaugh UK Ltd., Hamilton House, Mabledon Place London WC1H 9BB, United Kingdom Technical Enquiries: 0800 078 9649 [www.albaugh.eu](http://www.albaugh.eu)

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



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A suspension concentrate containing **100 g/l (9.3 % w/w) mesotrione** for the control of annual grass and broad-leaved weeds in grain and forage maize.

## IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE.

Crops	Maximum Individual Dose	Maximum Number of Treatments	Latest Time of Application
Forage maize, grain maize	1.0 litre of product per hectare	1 per crop	8 leaves unfolded stage (BBCH 18)

### Other Specific Restrictions

Do not apply before BBCH 12.

This product must not be applied by hand-held equipment.

**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.**

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

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London WC1H 9BB, United Kingdom  
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**SHAKE WELL BEFORE USE**

**PROTECT FROM FROST**

### Emergency Information:

CARECHEM: +44 1235 239 670 (24 hour)

Batch Number and manufacturing date: see packaging

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 **ALBAUGH<sup>®</sup>**  
your alternative

## **DIRECTIONS FOR USE**

**IMPORTANT:** This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

## **GENERAL INFORMATION**

DANEVA contains mesotrione, a foliar applied herbicide for selective control of annual grass and broad-leaved weeds. The activity of DANEVA is mostly by foliar uptake with some soil uptake. DANEVA is rapidly absorbed through the leaves and moves to the growing point.

### **Crops**

For use only as a herbicide for the control of weeds in forage and grain maize. AVOID USE on seed crops of forage and grain maize.

### **Spray Timing**

Always inspect crop and weed growth stage immediately before spraying. For best results treat when weeds are small and actively growing. See weed control tables for details.

## **CONDITIONS FOR USE**

### **Crops**

Forage maize and grain maize may be sprayed any time from the two to eight leaf stage (BBCH 12-18).

### **Weather**

For the best results DANEVA should be applied when the weeds are actively growing i.e. in warm, humid weather with adequate soil moisture. Treated in poor growing conditions or in dry soil may give less reliable control. Avoid spraying when weed or crop foliage is wet.

## **AGRICULTURAL PRACTICE**

Avoid overlapping spray swaths. It is not recommended to spray crops suffering from stress e.g. in when in very cold or drought conditions, or when wide temperature fluctuations are expected or excessive rainfall is expected to follow application. Under these adverse conditions, mild to moderate chlorosis may be observed on sprayed leaves. This effect is usually transient and does not affect yield.

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

## **RESISTANCE MANAGEMENT**

DANEVA is a 4-HPPD inhibitor, which disrupts development of plant pigments used for photosynthesis. The main symptom caused by DANEVA is 'leaf-bleaching'. Susceptible weeds will subsequently die. It is recommended to use DANEVA in sequence with herbicides having alternative modes of action to that of DANEVA to reduce the risk of resistance developing in the target weeds (especially, Common amaranth, Barnyard grass, Black nightshade and Fat-hen).

Crop rotation will also delay the onset of resistance, so it is advisable to use DANEVA in rotational crops of maize. However, where continuous maize is grown, it is not advisable to use DANEVA for more than two consecutive seasons.

To achieve optimum control from DANEVA, use the maximum dose required for the weed spectrum and sizes that you have, taking note to treat weeds when they are small and actively growing.

NOTE: Weed control may be reduced if strains of individual species less sensitive to DANEVA develop.

## **WEED CONTROL**

The recommended dose rate is 0.75 to 1.0 litres per hectare depending on the type of weeds present and their growth stage. Applications are recommended when weeds are small and actively growing (maximum weeds sizes are given in the table below).

DANEVA		1.0 L/ha	0.75 L/ha
<b>Grass Weeds</b>	<b>Maximum weed size controlled</b>	<b>Susceptibility rating</b>	<b>Susceptibility rating</b>
Cockspur grass ( <i>Echinochloa crus-galli</i> )	3 true leaves	R	R
Annual meadow-grass ( <i>Poa annua</i> )	5 true leaves	MR	-
<b>Broad-leaved Weeds</b>	<b>Maximum weed size controlled</b>	<b>Susceptibility rating</b>	<b>Susceptibility rating</b>
Common amaranth ( <i>Amaranthus retroflexus</i> )	4 true leaves	S	-
Fat-hen ( <i>Chenopodium album</i> )	4 visibly extended internodes	S	S
Sowbane ( <i>Chenopodium hybridum</i> )	6 true leaves	S	S
Many-seeded goosefoot ( <i>Chenopodium polyspermum</i> )	6 true leaves	S	S
Shepherd's purse ( <i>Capsella bursa-pastoris</i> )	8 side shoots visible	S	S
Red dead-nettle ( <i>Lamium purpureum</i> )	1 visibly extended internode	S	MS
Knotgrass ( <i>Polygonum aviculare</i> )	5 true leaves	S	-
Black bindweed ( <i>Fallopia convolvulus</i> )	8 side shoots visible	MS	MR
Redshank ( <i>Persicaria maculosa</i> )	2 visibly extended internodes	S	S
Black nightshade ( <i>Solanum nigrum</i> )	8 true leaves	S	S
Common chickweed ( <i>Stellaria media</i> )	5 visibly extended internodes	S	S
Field pennycress ( <i>Thlaspi arvensis</i> )	1 visibly extended internode	S	S
Field pansy ( <i>Viola arvensis</i> )	8 true leaves	S	S
Common field speedwell ( <i>Veronica persica</i> )	7 visibly extended internodes	R	R

S = Susceptible (85%-100% control)

MS = Moderately Susceptible (75%-85% control)

MR = Moderately Resistant (60%-75% control)

R = Resistant (0%-59% control)

## Application

Good spray cover is essential and care should be taken to ensure that the sprayer has a matched set of nozzles, the machine is correctly calibrated and adjusted to the correct height above the crop.

Apply using a medium quality spray (BCPC) at a pressure of at least 2 bar.

Apply through conventional spraying equipment.

## Preparation of the spray

Shake the DANEVA container before opening.

Half-fill the spray tank with clean water, add the required amount of DANEVA and agitate while filling the tank. On emptying the container, 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 container safely. Continue agitation during spraying.

## **Volume of water**

Even cover of the weeds is essential.

Apply in 200-300 litres (maximum) of water per hectare as a medium quality spray at 2-3 bar pressure.

The lower rate is preferable, but the higher volume may be necessary where there are dense or well developed weed populations.

## **Application methods**

Apply through a conventional field crop sprayer using a pressure of 2-3 bars. Ensure the sprayer is correctly calibrated before use.

Do not leave spray liquid in the sprayer for long periods (i.e. overnight).

## **Cleaning application equipment**

Wash application equipment thoroughly after use, so as to remove all traces of DANEVA, as even small amounts remaining in the spraying equipment may cause damage to crops from subsequent spraying operations. Rinse the inside of the tank with clean water, using at least one tenth of the spray-tank volume. After flushing through the pump and spray-lines, drain and repeat the entire procedure. Disposal of spray-tank washings should be conducted in accordance with local or national legislation.

## **SUCCEEDING CROPS**

### **Crop failure**

In the event of crop failure, maize (forage and grain) may be re-planted 4 weeks after application. Ploughing is recommended prior to reseedling. Some slight crop effects may be seen soon after emergence, but these are usually transitory in nature.

### **Rotational crops**

Autumn: Winter wheat (including durum wheat), winter barley and ryegrass can be planted in the autumn following on from crops of maize treated with DANEVA. Before planting autumn crops of oilseed rape, ploughing to a minimum of 15cm is necessary.

Spring: Forage and grain maize, spring wheat, spring barley and ryegrass can be planted in the spring following on from crops of maize treated with DANEVA. Do not sow any other crop at this time.

## **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