

A selective herbicide for the control of annual broad-leaved weeds and barnyard grass in grain and forage maize.

# BARRACUDA®

A suspension concentrate containing 100 g/litre mesotrione.



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Albaugh  
*Your Alternative™*

**Approval Holder and Marketing Company:**

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**For advice on medical emergencies, fires,  
spillages or chemical hazards, telephone:  
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# BARRACUDA<sup>®</sup>



HERBICIDE

PROTECT FROM FROST  
SHAKE WELL BEFORE USE

A suspension concentrate containing 100 g/litre mesotrione.

A selective herbicide for the control of annual broad-leaved weeds and barnyard grass in grain and forage maize.

## SAFETY INFORMATION

May cause an allergic skin reaction.

Causes serious eye irritation.

Very toxic to aquatic life with long lasting effects.

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

Avoid breathing mist/spray.

Wash hands thoroughly after handling

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

IF ON SKIN: Wash with plenty of soap and water.

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

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Collect spillage

Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste

**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)**

**Professional use only.**



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PCS No. 05967

## 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), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH SPLASHES from skin immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

Wash all protective clothing.

### Environmental protection

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

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 of 5 m to surface water bodies.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 metres of the top of the bank of any static or flowing waterbody.

### Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

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

DO NOT RE-USE CONTAINER for any purpose.

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 the container safely.

Keep dry and protect from frost in a suitable pesticide store.

Batch number and date of manufacture: see pack

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**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.**

**IMPORTANT INFORMATION**

**FOR USE ONLY AS AN AGRICULTURAL HERBICIDE**

<b>Crops/ Situations</b>	<b>Maximum Individual Dose</b>	<b>Maximum Number of Treatments</b>	<b>Maximum Total Dose</b>	<b>Latest Time of Application</b>
Grain maize and forage maize - Open Ground	1.5 litres product /ha	1 per crop	1.5 litres product /ha	8 leaves unfolded stage (GS18)

**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.**

**GENERAL INFORMATION**

Barracuda is a suspension concentrate containing the herbicide active ingredient mesotrione for the control of annual broad-leaved weeds in grain maize and forage maize crops only. Barracuda is absorbed by the weed foliage and works mainly by means of uptake through the leaves and limited uptake through the roots. After entry into the plant, mesotrione is translocated to the growing points. For best results, use when there is adequate soil moisture, under warm/humid conditions and when the weeds are small and actively growing. Following application sensitive weed species show chlorosis and subsequently die.

**WARNINGS AND RESTRICTIONS**

**EXTREME CARE MUST BE TAKEN TO AVOID SPRAY DRIFT** to avoid damage to plants outside the target area.

**DO NOT APPLY** under windy conditions.

**DO NOT ALLOW SPRAY SWATHS TO OVERLAP** as crop damage may occur.

**DO NOT USE** on any crop that is being grown for seed.

**DO NOT USE** on any sweetcorn variety.

Do not apply to crops that are under stress from any cause including pest or disease attack, nutrient deficiency, drought, waterlogging, previous herbicide application or any other cause.

Do not apply during very cold or frosty conditions or when large temperature fluctuations or excessive rainfall are forecasted or expected.

Before use, make sure the sprayer is cleaned from any previous use, and that it is calibrated to apply the recommended spray volume and pressure. Make sure that all the sprayer nozzles are performing equally and that the spray boom is set at the correct height above the crop.

Trace amounts of Barracuda remaining in the sprayer after use can cause damage to other crops subsequently treated with the same equipment. Immediately after use thoroughly clean the sprayer and all equipment as follows: fill the spray tank with clean water to a minimum of 10% of its total volume. Flush the water through the sprayer, including nozzles and spray booms and lines. Drain and repeat the procedure. During spray equipment cleaning, do not allow the product or sprayer equipment washings to contaminate water. Do not

clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

### **CROPS AND TIMING**

For use in grain maize and forage maize only. Apply from when the crop has between 2 to 8 leaves. For best results, use when there is adequate soil moisture, under warm/humid conditions and when the weeds are small and actively growing, see "WEEDS CONTROLLED", for weed species and maximum sizes controlled. Ensure that the crop and weed foliage are dry at the time of application, do not use if heavy rainfall is forecasted or expected soon after application. Under extreme weather conditions, some chlorosis (mild – moderate) may occur on the crop foliage. This chlorosis is normally transient and there is no effect on crop yield. Always check the condition of the crop and the weeds immediately prior to application. Treatment in poor growing conditions or in dry soil may give less reliable control.

### **RESISTANCE MANAGEMENT**

Barracuda contains mesotrione which is from a group of herbicides referred to as 4-HPPD inhibitors. This class of compounds act by disrupting the synthesis of certain plant pigments involved in photosynthesis.

At the present time there is no known cross-resistance to mesotrione in weeds that exhibit resistance or reduced sensitivity to other herbicides with different modes of action. The use of Barracuda in mixtures and sequences with other herbicides approved for use in grain and forage maize crops and with a different mode of action is recommended to help to reduce the development of resistance. As herbicides in the group of 4-HPPD inhibitors are currently only available in maize crops, crop rotation with the use of herbicides with a different mode of action will also help to reduce the development of resistance. In the event that strains of weeds develop resistance or become less sensitive to a specific herbicide such as mesotrione, weed control may be reduced.

Where maize crops are grown in successive seasons, avoid the use of Barracuda for more than two successive seasons to avoid the potential for weed resistance developing to mesotrione.

### **APPLICATION**

Apply Barracuda at 0.75-1.5 litres per ha in 200-300 litres of water per hectare. Select the dose rate from within this recommended range according to the weed species present, see "WEEDS CONTROLLED". Select the most appropriate water volume from within this recommended range to give good even cover of the weed foliage. Use the minimum water volume (200 litres per ha) wherever possible, but the higher volume (300 litres per ha) may be required if the weed foliage is dense. Do not exceed the maximum recommended water volume. Use a conventional hydraulic nozzle field crop sprayer with suitable nozzles operating at a pressure of 2-3 bar to apply a MEDIUM quality spray (BCPC). The use of any tank mix adjuvant with Barracuda is not required and is not recommended.

### **MIXING**

Half fill the sprayer tank with clean water and begin gentle agitation. Add the required quantity of product into the sprayer tank and allow to disperse fully. Rinse the empty containers thoroughly by using an integrated pressure rinsing device or manually rinsing three times. Add the washings to the sprayer and continue agitation whilst topping up the tank with water to the required level. Continue agitation until the mix is sprayed out. Spray immediately after mixing, do not allow the mixture to stand in the sprayer. When using tank-mixes follow any specified order of addition on the partner product label(s).

### **WEEDS CONTROLLED**

Barracuda applied at 0.75 or 1.5 l/ha will control the broad leaf weed species listed in the table below, as well as Common barnyard grass, from emergence until the maximum growth stage as listed in the table:

<b>Weed Species</b>	<b>0.75 l/ha*</b>	<b>1.5 l/ha*</b>	<b>Maximum Growth Stage (BBCH) or Size Controlled</b>
Black nightshade	S	S	10 leaves or 15 cm
Charlock	S	S	Flowering
Cockspurgrass	-	MS	1 tiller
Common amaranth	S	S	8 leaves or 10 cm
Common chickweed	S	S	10 cm diameter

Weed Species	0.75 l/ha*	1.5 l/ha*	Maximum Growth Stage (BBCH) or Size Controlled
Fat hen	S	S	12 leaves or 20 cm
Field pansy	S	S	6 leaves
Oilseed rape (volunteer)	S	S	6 leaves
Redshank	MS	MS	6 leaves or 10 cm

\* S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant

#### **COMPATIBILITY**

Barracuda may be applied as a tank-mix with a range of products. Contact Albaugh UK Ltd on 020 3551 2580 for compatibility information on specific tank-mixes.

#### **FOLLOWING CROPS**

Crops following normal harvest of the treated crop:

##### **Autumn-sown crops**

Rye-grass, winter wheat, durum wheat, and winter barley can be planted in the Autumn following harvesting of a treated crop. Oilseed rape can be planted in the Autumn following harvesting of a treated crop, provided that the land is ploughed to a depth of at least 15cm and then cultivated prior to sowing.

##### **Spring-sown crops**

Spring barley, spring wheat, rye-grass, forage maize and grain maize can be planted in the Spring following harvesting of a treated crop. DO NOT sow any other crop in the year following harvesting of a treated crop.

#### **REPLACEMENT CROPS**

In the event of failure of a treated crop for any reason, plough prior to re-seeding. Sow only forage maize or grain maize after the failure of a treated crop. Some effect on the re-seeded crop may be seen shortly after emergence but these are usually only temporary and quickly overcome.

#### **SPRAYER DECONTAMINATION**

Immediately after use thoroughly clean the sprayer and all equipment as follows: fill the spray tank with clean water to a minimum of 10% of its total volume. Flush the water through the sprayer, including nozzles and spray booms and lines. Drain and repeat the procedure. It is essential that all nozzles, filters, tubing, strainers, pumps and the spray tank are thoroughly cleaned after use to avoid the risk of damage to crops subsequently treated with the same equipment.

#### **COMPANY ADVISORY INFORMATION**

This section is not part of the Product Label under the Plant Protection Products Regulation (EC) No 1107/2009. It provides additional advice on product use at the discretion of the applicant.

#### **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.