



# Callisto®

**GROUP 27 HERBICIDE**

**Product reg. no:** MAPP 19756

**UF:** 2NS9-J00M-6007-RPXT

A suspension concentrate containing 100 g/l (9.1% w/w) mesotrione.

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

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

**In case of toxic or transport emergency ring  
+44 (0)1484 538444 any time.**

**SHAKE WELL BEFORE USE. PROTECT FROM FROST**

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The  
Voluntary  
Initiative

This product label is compliant with the  
CPA Voluntary Initiative (VI) guidance



## SAFETY PRECAUTIONS

### (a) Operator protection

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

**WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD)** when handling the concentrate. However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.  
**WHEN USING DO NOT EAT, DRINK OR SMOKE.**  
**WASH SPLASHES** from skin immediately.  
**WASH HANDS AND EXPOSED SKIN** before meals and after work.

### (b) Environmental protection

Do not contaminate water with the product or it's container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

### (c) 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.

L1138301 GBRI/06D PPE 4234294

# 5 litres

Product names marked ® or ™, the ALLIANCE FRAME  
the SYNGENTA Logo and the PURPOSE ICON  
are Trademarks of a Syngenta Group Company



A suspension concentrate containing 100 g/l (9.1% w/w) mesotrione.



### Warning

**Causes serious eye irritation.**

**Suspected of damaging fertility or the unborn child.**

**Very toxic to aquatic life with long lasting effects.**

Keep out of reach of children.

Obtain special instructions before use.

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

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

IF exposed or concerned: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

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.**

**MAPP 19756 UFI: 2NS9-J00M-6007-RPXT**

### IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS A HERBICIDE.

For use on: Forage maize and grain maize.

Maximum individual dose: 0.75 litres per hectare.

Maximum number of treatments: One per crop.

Latest time of application: Eight leaf stage.

#### Other specific restrictions:

Do not apply by handheld 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.**

This leaflet is part of the approved Product Label.

## **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**

CALLISTO contains mesotrione a foliar applied herbicide for selective control of annual broad-leaved weeds. The activity of CALLISTO is mostly by foliar uptake and to some extent by soil uptake. CALLISTO 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 maize and grain maize. **DO NOT USE** on forage maize and grain maize seed crops or on sweet corn varieties.

### **Spray timing**

Always inspect crop and weed growth stage immediately before spraying.  
For the best results treat young weed seedlings. See weed control tables for application details.

## **CONDITIONS FOR USE**

### **Crops**

Forage maize and grain maize may be sprayed any time from the two to eight leaf stage.

### **Weather**

For the best results CALLISTO should be applied when the weeds are actively growing i.e. in warm humid weather with adequate soil moisture. Treatment in poor growing conditions or in dry soil may give less reliable control.

Do not spray when weed or crop foliage is wet.

## **AGRICULTURAL PRACTICE**

It is not recommended to spray crops suffering stress e.g. 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.

Take extreme care to avoid drift onto dicotyledonous plants outside the target area.

Take extreme care to avoid drift onto all crops outside the target area, otherwise crop damage will result. Ensure that spray swaths are matched accurately and do not overlap.

## **RESISTANCE MANAGEMENT**

CALLISTO is a 4-HPPD inhibitor, disrupting development of plant pigments which are essential for photosynthesis. This inhibition causes leaf chlorosis and eventual death of sensitive weed species. It's mode of action is different from other herbicide groups, and there is no known cross resistance in weeds which exhibit reduced sensitivity to other herbicides. Weed control may be reduced if strains of individual species less sensitive to CALLISTO develop.

The use of CALLISTO in programmes or tank mixtures with a broad-leaved herbicide possessing a different mode of action will reduce the likelihood of resistance developing in broad-leaved weeds e.g. Fat hen, Black nightshade, Common amaranth. At the present time there is no similar mode of action in herbicides for crops other than maize and therefore crop rotation will also delay the onset of any resistance. Where continuous maize is grown the use of CALLISTO for more than two seasons should be avoided.

## WEED CONTROL - RATE OF USE

CALLISTO contains an adjuvant system and the addition of an adjuvant or a tank mix wetting agent is not recommended.

The recommended dose rate is 0.75 litres per hectare depending on the type of weeds present.

Annual Broad-Leaved Weeds	Dose rate l/ha	Weed growth stage
Fat hen	0.75	Emergence to 12 leaves (or 20 cm)
Black nightshade	0.75	Emergence to 10 leaves (or 15 cm)
Common amaranth	0.75	Emergence to 8 leaves (or 10 cm)
Redshank	0.75	Emergence to 6 leaves (or 10 cm)
Common chickweed	0.75	Emergence to 10 cm diameter
Oilseed rape volunteers	0.75	Emergence to 6 leaves
Charlock	0.75	Emergence to flowering
Field pansy	0.75	Emergence to 6 leaves

### 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 crop spraying equipment.

### Preparation of the spray

Shake the CALLISTO container before opening.

Half-fill the spray tank with clean water, add the required amount of CALLISTO 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.

Use in 200 to 300 litres (maximum) of water per hectare. **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).

### After Use

It is important to wash equipment thoroughly after use to remove all traces of CALLISTO as even small amounts may cause damage to crops. Rinse inside of tank with clean water using at least one tenth of the spray tank volume. After flushing through pump and spray lines, drain and repeat procedure.

Disposal of spray tank washings should be in accordance with local, state or national legislation.

## FOLLOWING CROPS AND RECULTIVATION

### Recultivation

Ploughing is recommended prior to reseeded. Some slight crop effects may be seen soon after emergence, but these are usually transitory in nature. Forage and grain maize can be re-seeded immediately in case of crop failure.

## **Rotational crops**

### **Autumn**

Winter wheat (including durum wheat), winter barley and rye grass can follow a maize crop treated with CALLISTO.

Deep ploughing (greater than 15cm) followed by cultivation is necessary before drilling oilseed rape.

### **Spring**

Forage and grain maize, ryegrass, spring wheat and spring barley may be sown in the spring following application of CALLISTO, do not sow any other crop at this time.

PROTECT CALLISTO FROM FROST.

To access the Safety Data Sheet for this product, scan QR code:



Alternatively, contact your supplier.

A suspension concentrate containing 100 g/l (9.1% w/w) mesotrione.



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