

Caesar



Caesar is a sulfonylurea herbicide for the control of a wide range of broad-leaved weeds in potatoes and forage maize.

Contains 25% w/w rimsulfuron as a water-soluble granule formulation.

MAPP 15272

HERBICIDE

For 24 hour emergency contact Carechem 24: 01865 407333

WARNING

VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

AVOID RELEASE TO THE ENVIRONMENT.

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. 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 AVOID RISKS TO HUMAN HEALTH AND THE ENVIRONMENT, COMPLY WITH THE INSTRUCTIONS FOR USE.

**Technical Hotline:
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The United Kingdom Agricultural Pesticide Fund

Information Overleaf →



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

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

**For Batch No. and
Prod. Date See Can
PROTECT FROM FROST**



0.12Kg^e

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL HERBICIDE			
Crops	Maximum individual dose	Maximum number of treatments per crop.	Latest timing of application
Potatoes	50 g/ha	One per crop	Before the most advanced plants are 25 cm high.
Forage maize	50 g/ha	One per crop	Before 4-collar fully emerged stage.
Other specific restrictions: This product may only be applied from 1 st February in the year of harvest until the specified latest time of application. 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 THE LABEL AND SAFETY PRECAUTIONS BEFORE USING. 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

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

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

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

Environmental Protection

EXTREMELY DANGEROUS TO FISH OR OTHER AQUATIC LIFE.

Do not contaminate surface waters or ditches with chemical or used container.

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

Storage and Disposal

DO NOT RE-USE CONTAINER FOR ANY PURPOSE

KEEP OUT OF REACH OF CHILDREN.

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

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

CAESAR uptake is through the leaves and when mixed with a suitable adjuvant or herbicide partner it will control a wide range of broad-leaved weeds and give moderate suppression of common couch. For full activity, weeds must be small and actively growing when CAESAR is applied. Broad-leaved weeds should be no larger than 2 true leaves since the activity against larger weeds is reduced. Because of the foliar uptake, it can be used on highly organic soils.

Where weeds emerge in more than one flush, a split application on some weeds can be more effective than a single spray – see weed susceptibility table.

RESTRICTIONS

Do not apply to any crop suffering from stress. Conditions which can cause stress include drought, water-logging, low temperatures, pest or disease attack, lime or nutrient deficiency or any other factor limiting crop growth.

CAESAR is a very active herbicide and care must be taken to avoid drift onto non-target plants or on to surface waters or ditches since this may cause damage.

Do not apply to potatoes grown for certified seed or for seed production.

Consult processor before using CAESAR on crops grown for processing.

Activity can be restricted when soil conditions are very dry.

Do not cultivate or re-ridge crops after application.

Do not apply CAESAR to forage maize treated with organophosphate (OP) insecticides.

Do not apply CAESAR to forage maize undersown with grass or clover. After application, thorough cleansing of the application equipment is vital to avoid damage other crops – see below.

Resistance

CAESAR is a sulfonylurea herbicide and some weeds are beginning to develop resistance to this class of herbicides. The risk of resistance is increased when herbicides with the same mode of action are used repeatedly over several years in the same field since this selects for resistant biotypes – individuals of a susceptible species that survive a correctly applied recommended dose. To avoid or delay the onset of resistance, alternate or tank-mix herbicides with different modes of action.

CROP SPECIFIC INFORMATION

Potatoes. CAESAR + 0.1 % v/v non-ionic wetter* can be used on all

commercial varieties of ware potatoes but when applied in mixture with metribuzin (e.g. MAPP 13453 or MAPP 04991) it must only be used on metribuzin-tolerant varieties – see the metribuzin label. For the weeds controlled, see the weed susceptibility table below.

Timing: Apply CAESAR once the crop and weeds have emerged but before the crop exceeds 25 cm high. Transient chlorosis or stunting may be observed but the crop usually recovers.

Dose: Apply one application of CAESAR at 50 g product per ha in mixture with 0.1 % v/v non-ionic wetter such as Citowett.

When using the tank-mixture of CAESAR + Metribuzin, one application of 40 g/ha CAESAR + 0.2 kg/ha 70 % w/w metribuzin (140 g.ai/ha) + 0.1 % v/v non-ionic wetter is permitted.

Forage maize. CAESAR + 0.1 % v/v non-ionic wetter* can be used on the following varieties of forage maize. Note that only application in tank-mixture with 0.1 % v/v non-ionic wetter is permitted in maize.

Alarik	Diamante	Folio	Melody	Sonia
Andrea	Facet	Levis	Rival	Trophee

Timing: Apply CAESAR one the crop and weeds have emerged but before the maize exceeds the four-collar stage. Transient chlorosis or stunting may be observed but the crop usually recovers.

Dose: Apply one application of CAESAR at 50 g product per ha in mixture with 0.1 % v/v non-ionic wetter such as Citowett.

WEED CONTROL

Weed species	Potatoes & Maize		Potatoes ONLY	
	CAESAR + wetter* 50g/ha+0.1%v/v		CAESAR + Metribuzin (70% w/w) + wetter* 50g + 0.2kg + 0.1% v/v	
	Cot-2 lvs	2-6 lvs	Cot-2 lvs	2-6 lvs
Black-bindweed **	MS	MR	S	MR
Black nightshade	MS	R	MS	R
Charlock	S	S	S	S
Cleavers	S	S	S	S

Common chickweed	S	S	S	S
Fat-hen**	MS/MR ¹	MR	S	S
Hempnettle	S	S	S	S
Knotgrass**	MS	R	MS	R
Pale persicaria**	MS	MR	S	MS
Redshank**	S	MS	S	S
Red deadnettle	S	S	S	S
Scentless Mayweed	S	S	S	S
Small nettle	S	S	S	S
Volunteer oilseed rape	S	S	S	S

¹ Fat-hen is MS in forage maize but MR in potatoes.

* Non-ionic wetter such as Citowett.

** A split application is more effective against these species.

S = Susceptible;

MS = Moderately Susceptible;

MR = Moderately Resistant

R = Resistant

Note: Application of 50 g/ha CAESAR + 0.1 % v/v non-ionic wetter has given moderate suppression of common couch but the long-term control has not been investigated.

APPLICATION

CAESAR should be applied in 200 L/ha as a MEDIUM spray as defined by BCPC using an application pressure of 2 – 3 bar. DO NOT overlap spray swathes. Avoid application on days when the temperature is likely to exceed 21 °C, conditions of high light intensity, substantial fluctuations in day/night temperatures or when frost is expected.

MIXING

Before spraying it is important to check all hoses, filters and nozzles, and to ensure that the sprayer is clean and correctly set to give an even application at the correct volume. CAESAR mixes easily in water but the following procedure is recommended. Quarter fill the spray tank with clean water. Begin agitation and add the required quantity of CAESAR directly to the tank without pre-creaming. Add the remainder of the water and agitate the mixture thoroughly before and during spraying. When using a tank-mix, ensure that the CAESAR is fully dispersed in the tank before adding the partner product. Spray

immediately after mixing.

COMPATIBILITY AND SEQUENCES

CAESAR is recommended in tank-mixture with metribuzin on potatoes but it can also follow pre-planting incorporation or pre-emergence application of metribuzin. CAESAR can also be applied after application of non-selective herbicides or non-selective + residual mixtures but should not be applied in tank-mix or sequence with any other sulphonylurea.

CLEANING OF APPLICATION EQUIPMENT

To avoid damage to crops other than potatoes or forage maize, the application equipment must be thoroughly de-contaminated after application. Do not drain or flush the spray equipment on to land planted or intended to be planted with trees or crops other than forage maize or potatoes.

- Immediately after application, drain the tank completely and wash down with clean water. Rinse out the tank and flush through the booms and hoses.

- Half-fill the tank with clean water and add the recommended dose of ALL CLEAR EXTRA. Agitate and then flush the boom and hoses with the cleaning solution. Top up the tank so that it is completely full and leave to stand for 15 minutes with the agitation running. Flush the booms and hoses again and drain completely.
- Remove the nozzles and filters and clean separately in a solution of 50 ml ALL CLEAR EXTRA in 10 litres of water.
- Rinse the tank again with clean water, using at least 10 % of the tank volume and dispose of the washings safely. DO NOT spray onto a sensitive crop or land intended to be cropped with a sensitive crop. For disposal of washings in the UK, follow the 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings (MAFF Publications 1998) while in Ireland you should comply with local and national regulations.

FOLLOWING CROPS:

Only winter wheat can be planted in the same calendar year as an application of CAESAR to potatoes or forage maize. Only barley,

wheat or maize can be sown in the spring of the year following treatment. Any crop may be sown in the second autumn following treatment.

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 and 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 and 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.

SAMPLE