

HERBICIDE

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# TEMSA<sup>®</sup>sc

## A herbicide for use against annual broad-leaved weeds in forage and grain maize

Suspension concentrate containing 100 g/L (9.22 % w/w) mesotrione

MAPP No.: 18261

GROUP

F2

HERBICIDE

FOR PROFESSIONAL USE ONLY

**24-hour emergency number: 0032 14 58 45 45**

UK

Content: **5Le**

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

For warehouse purposes only

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Marketing company: **Belchim Crop Protection Ltd**  
1b Fenice Court, Phoenix Park, Eaton Socon, St Neots, Cambridgeshire PE19 8EW  
[www.belchim.co.uk](http://www.belchim.co.uk) | [info-uk@belchim.com](mailto:info-uk@belchim.com)

REGISTRATION HOLDER: **GLOBACHEM NV**  
Lichtenberglaan 2019 | B-3800 Sint-Truiden  
[www.globachem.com](http://www.globachem.com)



## SAFETY PRECAUTIONS

### OPERATOR PROTECTION

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

- \* Operators must wear suitable protective clothing (coveralls), suitable protective gloves and face protection (faceshield) when handling the concentrate.
- \* Operators must wear suitable protective gloves when handling contaminated surfaces.

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

- \* WHEN USING DO NOT EAT, DRINK OR SMOKE.

### 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.

### STORAGE AND DISPOSAL

- \* KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
- \* KEEP OUT OF REACH OF CHILDREN.

### 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.

### RESTRICTIONS

For the best results TEMSA SC 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. It is not recommended to spray crops suffering from 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.

Do not spray when weed or crop foliage is wet.

Extreme care must be taken to avoid spray drift onto plants outside of the target area. Take extreme care to avoid drift onto all crops outside of the target area, otherwise crop damage will result.

Ensure that spray swaths are matched accurately and do not overlap.

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 sweetcorn varieties.

### WEED CONTROL

Forage maize and grain maize may be sprayed any time from the two to eight leaf stage. TEMSA SC 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 to 1.5 litres per hectare depending on the type of weeds present and on their growth stage.

### Annual Broad-Leaved Weeds

**Dose rate:** 0.75 L/ha

**Fat hen:** Weed growth stage: emergence to 12 leaves (or 20 cm)

**Oilseed rape volunteers, Field pansy and Redshank:** Weed growth stage: Emergence to 6 leaves (or 10 cm for redshank)

**Black nightshade:** Weed growth stage: Emergence to 10 leaves (or 15 cm)

**Common amaranth:** Weed growth stage: Emergence to 8 leaves (or 10 cm)

**Common chickweed:** Weed growth stage: Emergence to 10 cm diameter

**Charlock:** Weed growth stage: Emergence to flowering

### Annual Grasses

**Dose rate:** 1.5 L/ha

**Cockspur grass:** Weed growth stage: Emergence to 1 tiller

### 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

Half-fill the spray tank with clean water, add the required amount of TEMSA SC 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 the sprayer at the time of filling and dispose of the container safely. Continue agitation during spraying.

### VOLUME OF WATER

Even cover of the weeds is essential.

Use 200 to 300 litres (maximum) of water per hectare. 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 TEMSA SC 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 tank washings should be in accordance with the Code of Practice for Using Plant Protection Products.

#### **FOLLOWING CROPS AND CULTIVATIONS**

##### **CULTIVATION**

Ploughing is recommended prior to reseedling. 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 ryegrass can follow a forage maize and grain maize crop treated with TEMSA SC. Deep ploughing (greater than 15 cm) is necessary before drilling oilseed rape.

###### **Spring**

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

##### **RESISTANCE MANAGEMENT**

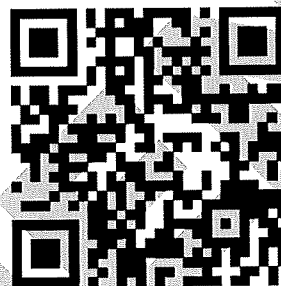
TEMSA SC is a 4-HPPD inhibitor, disrupting development of plant pigments which are essential for photosynthesis. This inhibition causes leaf chlorosis and eventual death of sensitive weed species. The mode of action is different to other herbicide groups, and there is no known cross-resistance in weeds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

The use of TEMSA SC in programmes or tank mixtures with a broad-leaved weed 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 forage maize and grain maize and therefore crop rotation will also delay the onset of any resistance.

##### **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 or 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. 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.

To access the Safety Data Sheet for this product, scan the QR code or use the weblink below:



WEBLINK to specific data sheet on manufacturer's website:

[www.belchim.co.uk/pdf/MSDS/Temsa\\_MSDS.pdf](http://www.belchim.co.uk/pdf/MSDS/Temsa_MSDS.pdf)

Alternatively, contact your supplier.



**IMPORTANT INFORMATION: FOR USE ONLY AS AN AGRICULTURAL HERBICIDE**

Crop	Maximum individual dose (litres product per hectare)	Maximum number of treatments (per crop)	Latest time of application
Forage maize, grain maize	1.5	1	At the eight leaf stage

**Other Specific Restrictions:**

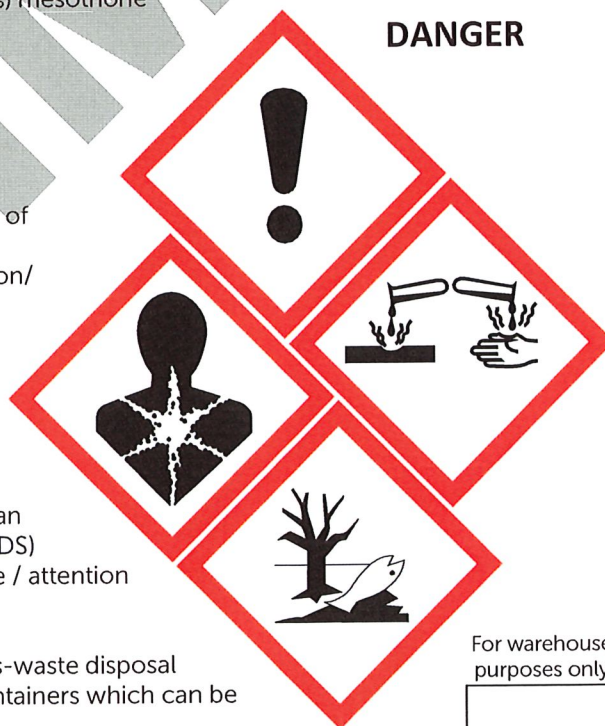
Extreme care must be taken to avoid spray drift onto plants outside of the target area. Take extreme care to avoid drift onto all crops outside the target area, otherwise crop damage will result.

**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.**

**TEMSA® SC** - Suspension concentrate containing 100 g/L (9.22%) mesotrione

- H317** May cause an allergic skin reaction  
**H318** Causes serious eye damage  
**H361d** Suspected of damaging the unborn child  
**H410** Very toxic to aquatic life with long lasting effects

- P261 Avoid breathing spray  
P272 Contaminated work clothing should not be allowed out of workplace  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352 IF ON SKIN: Wash with plenty of soap and water  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do - continue rinsing  
P308 + P313 IF exposed or concerned: Get medical advice/attention  
P310 Immediately call a POISON CENTER or doctor / physician  
P321 Specific treatment (see first aid instructions on label/MSDS)  
P333+P313 If skin irritation or a rash occurs: Get medical advice / attention  
P363 Wash contaminated clothing before reuse  
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

**DANGER**For warehouse  
purposes only

**EUH401** To avoid risks to human health and the environment, comply with the instructions for use  
**SP1** Do not contaminate water with the product or its container