

# LIGHTNING™

MAPP 20215

GROUP I HERBICIDE

An emulsifiable concentrate formulation (EC) containing 180 g/l Clethodim. A post emergence herbicide for the control of certain annual grasses in oilseed rape and sugar beet.

**RISK & SAFETY INFORMATION – 24 HOUR EMERGENCY NUMBER: +44(0)1763 212100**

## DANGER



- **May be fatal if swallowed and enters airways.**
- **May cause an allergic skin reaction.**
- Avoid breathing spray.
- Use only outdoors or in well-ventilated areas.
- Wear protective gloves/clothing and eye/face protection.
- IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
- IF ON SKIN: Wash with plenty of soap and water.
- **May cause drowsiness or dizziness.**
- **Toxic to aquatic life with long lasting effects.**
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Collect spillage.
- Store in a well-ventilated area, keep container tightly closed, store locked up.
- Dispose of contents/container to a licensed waste disposal contractor or collection site.

**UFI: S2GG-QWCD-A10N-UXV8**

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

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

### Authorisation Holder

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Scan to view the  
Safety Data Sheet

Alternatively, download the Safety Data Sheet from [sipcamuk.co.uk](http://sipcamuk.co.uk) or contact your supplier.

**SIPCAM UK CONDITIONS OF SUPPLY:** All goods supplied by us are of high grade, but as we cannot exercise control over their mixing or use, all conditions, and warranties, statutory or otherwise, as to the quality or fitness of our goods for any purpose, are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application, or use.

Net contents:

**5Le**

Batch number: SEE PACKAGE

**SIPCAM**  
UK

HERBICIDE

## IMPORTANT INFORMATION

### FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops	Maximum individual dose (L product/ha)	Maximum number of applications (per crop)	Latest time of application
Oilseed rape	0.7	1	6 true leaves unfolded
Sugar beet	0.7	1	Crop cover complete: leaves cover 90% of ground

#### Other specific restrictions:

To protect non-target plants and non-target arthropods respect an untreated buffer zone of 5 metres to non-crop land.  
To avoid the build-up of resistance, do not apply products containing an ACCase inhibitor more than twice in any crop. In addition, do not use this product in mixture or sequence with any other product containing clethodim.

**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.**

## 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) AND 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

WHEN USING DO NOT EAT, DRINK OR SMOKE.

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).

WASH SPLASHES/ANY CONTAMINATION from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

### Environmental protection:

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1m of the top of a ditch which is dry at the time of application.

DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1m of the top of the bank of a static or flowing water body. Aim spray away from water. This product qualifies for inclusion within the Local Environment 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.

To protect non-target insects/arthropods respect an untreated buffer zone of 5 metres to non-crop land. 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 except as directed for aquatic use. Do not clean application equipment near surface water / Avoid contamination via drains from farmyards and roads.

#### Storage and disposal:

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

RINSE CONTAINER THOROUGHLY manually rinsing three times. Add washings to sprayer at the time of filling and dispose of safely.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

DO NOT RE-USE CONTAINER for any purpose.

## 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.**

Lightning™ is a systemic herbicide for the post-emergence control of certain annual grasses in oilseed rape and sugar beet. Lightning™ is absorbed through the leaves and translocated to the roots and to the aerial part of the plant. Symptoms are visible on susceptible weeds about 10 - 20 days after treatment showing stunting, yellowing of the leaves and finally death.

## WEEDS CONTROLLED

Only apply to emerged weeds.

Treat before the crop cover is complete to guarantee an adequate weed cover.

Do not cultivate for at least two weeks after application to allow time for translocation to occur. Leave a longer interval (up to 3 weeks) if growing conditions are poor.

Weed Species (Susceptibility rating)
Black grass (MS)
Volunteer wheat (MS)
Barnyard grass (MR)

MS = Moderately Susceptible

MR = Moderately Resistant

## TIMING

Crops	Rate L/ha	Timing of Application (Crop stage)
Oilseed rape	0.7	Apply from 4 true leaves unfolded up to 6 true leaves unfolded, or 31st October (whichever occurs first)
Sugar beet	0.7	Apply from 2 leaves unfolded until the crop cover is complete (about 90% of plants meet between rows)

## CROP SPECIFIC INFORMATION

Avoid overlapping spray swaths as could result in crop damage and reduced yields.

### Oilseed Rape

<b>Number of applications:</b>	1
<b>Water volume</b>	200 - 400 L / ha
<b>Annual grasses</b>	0.7 L / ha from 2-3 leaves until beginning of tillering

Do not apply Lightning™ after the end of October. Avoid later applications (after mid-October) to earlier flowering or maturing varieties of oilseed rape (6 or above) and to crops drilled on or before 25th August. Avoid any other chemical application within 14 days before or after an application of Lightning™. Do not apply immediately after a period of frosty weather. In case of frost occurring some days after application, phytotoxic effects could be observed on the crop.

### Sugar Beet

<b>Number of applications:</b>	1
<b>Water volume</b>	200 - 400 L / ha
<b>Annual grasses</b>	0.7 L / ha from 2-3 leaves until beginning of tillering

### Resistance management

This product contains clethodim which is an ACCase inhibitor, also classified by the Herbicide Resistance Action Committee as 'Group 1' (previously 'Group A').

Use only as part of a resistance management strategy that includes cultural methods of control and does not use

ACCcase inhibitors as the sole chemical method of grass-weed control.

Applying a second product containing an ACCase inhibitor to a crop will increase the risk of resistance development; only use a second ACCase inhibitor to control different weeds at a different timing.

Strains of some annual grasses, e.g. black-grass, wild-oats, and Italian rye-grass, have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the AHDB, CPA, your distributor, crop adviser or product manufacturer.

Populations of annual grasses may show resistance to Lightning™ and will not be fully controlled.

It is recommended to adopt a long-term strategy integrating cultural and chemical measures. The following are the key elements of the resistance management strategy:

- Always follow WRAG guidelines for preventing and managing herbicide resistant weeds
- Maximise the use of cultural control measures wherever possible (e.g. crop rotation, ploughing, delayed drilling etc).
- Use tank mixes or sequences of effective herbicides with different modes of action within individual crops, or successive crops (SEE WARNINGS).
- To reduce the risk of developing resistance applications of Lightning™ should be made to young, actively growing weeds.
- Identify as much as possible the herbicides to which your grass weeds are resistant. This can help you to determine the most appropriate herbicides to use.
- Monitor fields regularly and investigate the reasons for any poor control.

## MIXING AND SPRAYING

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### Mixing

Never prepare more spray solution than is required.

Half fill the tank with clean water and start the agitation. To ensure thorough mixing of the product, invert the container several times before opening. Add the required quantity to the spray tank while re-circulating. Fill up the tank with water and continue agitation until spraying is completed.

Use immediately after mixing.

On emptying the container, rinse container thoroughly. Add washings to sprayer at time of filling and dispose of container safely.

### Spraying

Apply Lightning™ in 200 - 400 litres of water per hectare via a horizontal boom sprayer as a FINE or MEDIUM spray (BCPC category). Ensure good, even spray cover of the target.

### After use

Trace amounts of Lightning™ remaining in spray equipment can damage subsequently treated crops. Immediately after use of Lightning™ spray equipment should be thoroughly cleaned. Growers should consult manufacturer's guidance for procedures for their specific equipment and use a combination of triple rinsing and agitation with clean water. Completely fill spray tanks with clean water at each rinse and ensure that spray equipment is thoroughly flushed.

Lightning™ does not require the addition of any adjuvant.

## REPLACEMENT AND FOLLOWING CROPS

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Broadleaved crops may be sown at any time following normally harvested crops or the failure of a crop treated with Lightning™.

It is recommended to wait at least 4 weeks before sowing wheat, barley or maize after a crop treated with Lightning™. Soil should be thoroughly cultivated to a depth of 20cm before sowing.

## RESTRICTIONS OR WARNINGS

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Crops should not be re-entered until spray residues are dry.

Do not spray in very windy conditions and ensure that spray does not drift onto neighbouring vegetation, especially susceptible types such as cereals (maize particularly) and grasses. The use of drift reducing nozzle types should be taken as a matter of course to avoid spray drift on adjacent areas, particularly if the product is used on fields adjacent to young cereal crops. Do not apply to crops suffering from stress such as frost, pest or disease attack, previous herbicide treatments, or if rain or frost is expected, or crops of low vigour as phytotoxicity may occur. Lightning™ can be phytotoxic for crops not indicated on the label.

Consult processors before using on crops grown for processing.

Allow at least 14 days between application of Lightning™ and other herbicides

Do not apply if foliage is wet.

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

**Lightning™** is a trademark of Sipcaml UK Limited.