

# Cyclops

An emulsifiable concentrate containing 160 g/l bromoxynil (present as bromoxynil octanoate 232.9 g/l) and 26.7 g/l diflufenican.

A selective herbicide for the control of a range of annual broadleaved weeds in winter wheat and winter barley.

## PRODUCT BENEFITS

- Controls problem weeds such as Volunteer beans and Volunteer oilseed rape in the autumn.
- Also controls a range of other difficult autumn weeds.
- Fast acting with both contact and residual activity.
- Non-ALS mode of action.
- Good reliability even in cool autumn conditions.
- Excellent crop safety.

**Buffer zone:** 7 metres

**Pack size:** 5 litres

**Storage:** PROTECT FROM FROST



Grow a better tomorrow.

**IMPORTANT INFORMATION**

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE.

<b>Crop</b>	<b>Maximum individual dose</b>	<b>Maximum total dose</b>	<b>Latest time of application</b>
Winter wheat	1.25 l/ha	1.25 l/ha	Before end of February
Winter barley <sup>1</sup>	1.25 l/ha or 1.9 l/ha	1.25 l/ha or 1.9 l/ha	

*Other specific restrictions:*

- <sup>1</sup>The rate of 1.9 l/ha can only be applied after the 1 March.
- When used on crops/situations with a greater than five metres aquatic buffer zone this product must not be applied via hand-held 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.

MAPP 16676

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

## 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.**

CYCLOPS is recommended only for use as a post-emergence treatment in winter wheat and winter barely. CYCLOPS is a selective herbicide for the control of a range of annual broadleaved weeds.

### RESTRICTIONS

Extreme care must be taken to avoid spray drift onto plants outside of the target area. To avoid spray drift do not spray in windy or very still conditions. Spray drift must be avoided especially near susceptible crops such as sugar beet and oilseed rape.

DO NOT treat crops suffering from stress caused by drought, frost, disease or other adverse factors.

Ensure that spray swaths do not overlap.

### WEEDS CONTROLLED

Apply when the weeds are small and actively growing.

Weed	Weed size up to	1.25 l/ha	1.9 l/ha
Chickweed	Six leaves <sup>1</sup>	S	–
Fat hen	Four leaves	–	S
Groundsel	Four leaves	–	S
Pansy, field	Four leaves	S	–
Speedwell, ivy-leaved	Six leaves	–	S
Volunteer beans	Six leaves	S	–
Volunteer oilseed rape	Six leaves	S	–

<sup>1</sup>Application to chickweed at larger growth stages will give a significantly reduced level of control. S = susceptible.

### CROP SPECIFIC INFORMATION

#### Autumn application

##### Winter wheat and winter barley

#### Dose

1.25 l/ha.

#### Timing

Apply in autumn from two leaves unfolded (GS 12) until the end of February.

#### Water volume

Apply in 150–200 litres of water as a MEDIUM spray (BCPC category).

#### Spring application

##### Winter barley

#### Dose

1.9 l/ha.

#### Timing

Apply in spring from three leaves unfolded (GS 13) until second node detectable (GS 32).

### Water volume

Apply in 150–200 litres of water per hectare as a MEDIUM spray (BCPC category).

### MIXING AND SPRAYING

This product is for use by professionally qualified spray operatives only. This is a legal requirement. There is also legislation regarding storage, protective clothing and disposal of empty containers. If not professionally qualified always use a qualified contractor to apply this product.

Half fill the spray tank with clean water and start the agitation. Pour in the required amount of CYCLOPS. Add the remainder of the water and agitation must be maintained throughout the spraying operation. USE IMMEDIATELY following dilution. DO NOT allow diluted product to stand before use. Apply as a medium quality spray (as defined by BCPC). A spray pressure of 2–3 bar is recommended.

### FOLLOWING CROPS AND CROP FAILURE

In the event of a crop failure for any reason, soil treated with CYCLOPS can be re drilled immediately with winter wheat, after normal cultivation. Ploughing is not essential. Re drilling may also take place with winter barley, but only after ploughing. Fields must be ploughed and an interval of 12 weeks should elapse between treatment and subsequent planting of the following spring sown crops: spring wheat, spring barley, spring oilseed rape, peas, spring field beans, sugar beet, potatoes, carrots, edible brassicas or onions. Re drilling (before the subsequent autumn) must only take place with listed crops.

### Subsequent cropping in the normal rotation

Where CYCLOPS and other products containing diflufenican are applied to successive cereal crops, levels of diflufenican will build up in the soil.

Ploughing **with complete inversion of the furrow** *must* take place before planting any following non-cereal crop. Even where ploughing is carried out, there may still be a risk of damage to following crops of onions, leek and related species, or clover. As a precaution, users who rent out their land to growers of these crops should not use diflufenican containing products in successive years before renting out the land.

*Subsequent autumn cropping in the normal rotation:* After harvest, soils previously treated with CYCLOPS should be ploughed (ensuring complete inversion of the furrow slice) or cultivated to a depth of 15 cm. Thorough mixing of the soil must take place before drilling field beans, leaf Brassicae or winter oilseed rape. For sugar beet seed crops and winter onions the soil must be ploughed ensuring complete inversion of the furrow slice. Avoid excessive compaction. Autumn sown cereals can be drilled as normal. Only drill crops listed above. Occasionally in Brassica crops some seedlings may show slight discoloration on the cotyledons. These effects are quickly outgrown and should not affect subsequent growth.

*Subsequent spring cropping in the normal rotation:* Ploughing must take place before planting any spring crop, other than those where ploughing is not needed in the autumn.

### COMPATIBILITY

When tank mixes are to be used, each product should be added separately to the spray tank, taking due note of any instructions given as to the order of mixing.

CYCLOPS can be tank-mixed with other pesticides, please consult your distributor.

## RESISTANCE MANAGEMENT

When herbicides with the same mode of action are used repeatedly over several years in the same field, selection of resistant biotypes can take place. These can propagate and may become dominating. A weed species is considered to be resistant to a herbicide if it survives a correctly applied treatment at the recommended dose. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

**CYCLOPS**

An emulsifiable concentrate containing 160 g/l bromoxynil and 26.7 g/l diflufenican.

**DANGER**

**Harmful if swallowed.**

**May cause an allergic skin reaction.**

**Causes serious eye damage.**

**Suspected of damaging the unborn child.**

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

Avoid breathing vapours or spray.

Contaminated clothing should not be allowed out of the workplace.

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

IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

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

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.

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

**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 CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle-mounted or trailed equipment.

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.

WASH CONCENTRATE from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after work.

IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

### **Environmental protection**

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within seven metres of the top of the bank of a static or flowing water body, or within one metre of the top of a ditch which is dry at the time of application. Aim spray away from water. THIS CROP IS NOT ELIGIBLE FOR BUFFER ZONE REDUCTION UNDER THE LERAP HORIZONTAL BOOM SPRAYERS SCHEME.

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES, with chemical or used containers.

Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

KEEP LIVESTOCK OUT of treated areas until poisonous weeds such as Ragwort, have died and become unpalatable.

To protect non-target insects/arthropods respect an untreated buffer zone of five metres to non-crop land.

### **Storage and disposal**

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDSTUFFS.

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

WASH OUT CONTAINER THOROUGHLY empty washings into spray tank and dispose of safely.

DO NOT RE-USE CONTAINER FOR ANY PURPOSE.