

CENTURION MAX[®]

POST-EMERGENCE GRAMINICIDE FOR USE IN OILSEED RAPE AND SUGAR BEET
120g/L clethodim



H E R B I C I D E

PRECISION WEED CONTROL

- Wide spectrum against annual grass weeds
- The market benchmark in post-emergence grass weed herbicides, uniquely effective on Annual Meadow grass
- Essential for difficult-to-control weeds such as black-grass, and grass weeds resistant to 'fops' and 'dims'

Learn more at
www.upl-ltd.com/ie



CENTURION MAX[®]

Selective, post-emergence grass herbicide provides broad-spectrum control of annual grasses, with excellent selectivity on broadleaved crops such as winter oilseed rape and sugar beet.

Highly effective against perennial and annual grasses including those resistant to 'fops' and 'dims'.

Product profile	
Brand	CENTURION MAX
Active ingredient	120g clethodim
Formulation	EC
Crops	Sugar Beet, OSR
Maximum individual dose	1.0L/ha
Maximum total dose	1.0L/ha
Latest timing of application	Oilseed Rape: 15 October or 6 leaves of the crop which ever comes first Sugar Beet: Before row closure and 56 days before harvest
Pack size	5L
Water volume	150–200L/ha

MODE OF ACTION

Clethodim inhibits meristematic activity and acts by disrupting lipid biosynthesis. Lipids are important cell membrane constituents. In susceptible plants, the herbicide binds to the enzyme Acetyl CoA Carboxylase, which is necessary for lipid biosynthesis. The herbicide is translocated in the plant and accumulates in meristematic regions.

The primary symptoms in susceptible grasses include:

- Cessation of growth within seven days of application
- Plant tissue at the growing point slowly turns brown and rots
- Newly formed leaves become yellow (chlorotic) and slowly die
- As older leaves die, they show colour change to orange, red and purple

BLACK-GRASS CONTROL

CENTURION MAX exhibits outstanding grass weed activity and excellent performance against key black-grass and rye-grass strains. This includes those with reduced sensitivity to quizalofop and Cycloxydim.





APPLICATION

OILSEED RAPE

- Apply from 2 true leaves up to 15 October or 6 leaves of the crop which ever comes first
- Ensure weather conditions are favourable for application, consult label for further guidance
- Autumn only applications. Do not apply after 15 October

SUGAR BEET

- Treat from expanded cotyledon until inter-row spaces are covered. 56 day pre-harvest interval
- A 5-day no spray period is in place for any herbicide before clethodim application
- A 14-day no spray period is in place for herbicides post clethodim

General recommendations for application

- Apply to weeds between three leaf stage and early tillering
- Ensure that crops are healthy at time of application (no slug, CSFB or pigeon damage)
- Clethodim can be used as part of a programme with a soil-acting grass weed killer, to deal with black-grass, which is resistant to ALS-inhibiting herbicides (HRAC Group 2)

UPL RECOMMENDATIONS FOR OPTIMUM EFFICACY WITH CLETHODIM

TARGET IDENTIFICATION

Species

- All annual grasses
- Volunteer cereals

Stage

- 3 leaves minimum
- Adequate leaf surface area
- Actively growing weeds

PRODUCT

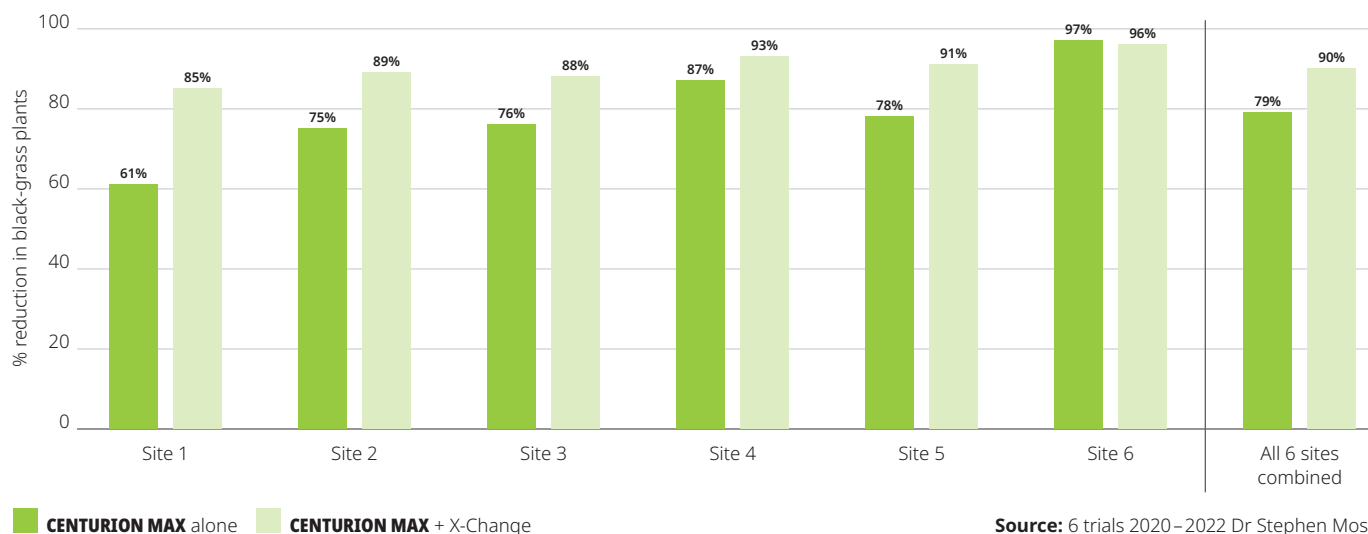
- Apply at 1.0L/ha
- Always apply in mixture with a water conditioner

CLIMATE

- Good spraying conditions
- Relative humidity 65% or higher
- Ideally to above 8°C but below 25°C
- Do not treat in case of frost, or moisture stress
- Ideally 12 hours without rainfall
- Spray volume 150 – 200L/ha to ensure good coverage

WATER CONDITIONER

The addition of a true water conditioner with a pH buffering system (with no built-in adjuvant) is recommended. The water conditioner will reduce the effects seen by high pH water supplies stabilising the spray solution. Water conditioners used in conjunction with **CENTURION MAX** will increase the efficacy as seen below.



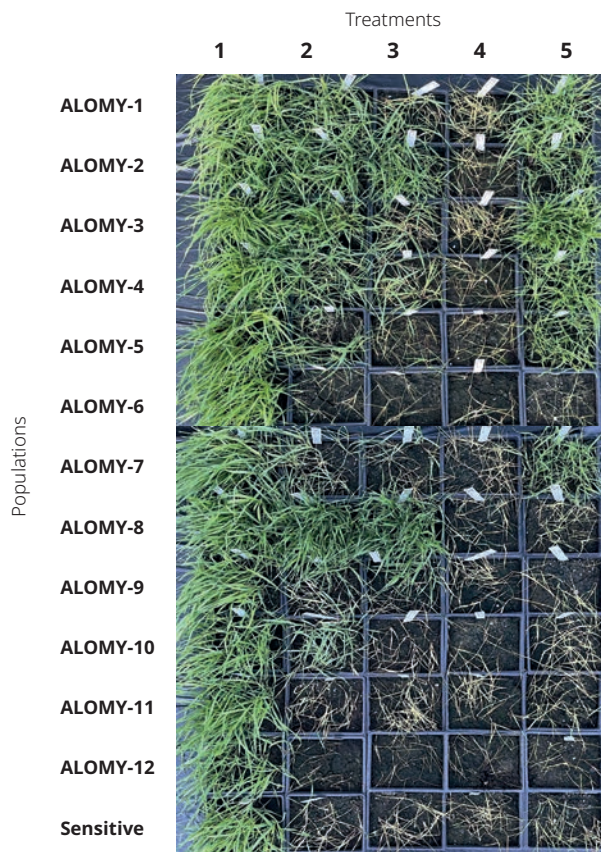
BLACK-GRASS RESISTANCE TRIAL

12 different black-grass populations grown alongside a sensitive population were sprayed at the two to three-leaf stage. **CENTURION MAX** in this case remained effective on all populations, including populations that developed full resistance to cycloxydim.

Treatments:

- 1 Untreated
- 2 Propaquizafop 100g a.i./ha
- 3 Cycloxydim 200g a.i./ha
- 4 **CENTURION MAX** 1L/ha
- 5 Mesosulfuron-methyl + iodosulfuron-methyl-sodium + amidosulfuron (15 + 5 + 25g a.i./ha)

Source: Courtesy of Dr Vijaya Bhaskar AV, Teagasc Oak Park Crops Research Centre, Carlow, Ireland



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