

 Censor, EC

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emulsion concentrate

clethodim 240 g/l

Highly efficient postemergence herbicide intended to control annual and perennial grass weeds on plantings of sugar beet, sunflower, and soybeans.

Advantages:

- Exterminates nearly all annual and perennial grass weeds, including malicious ones (quack grass, blue couch grass, green valley grass)
- No usage limitations with regard to crop development phase
- High efficiency at reduced doses regardless of soil and climatic conditions

Action

Mode of action

The preparation has a systemic effect, penetrates weeds through leaves and stalks, actively moves along toward the root system, accumulates in growing points and blocks synthesis of lipids.

Protective period

Throughout the vegetation period. However, new sprouts may emerge from seeds of annual grass weeds by season end.

Speed of action

The herbicide has a high systemic activity. The first signs of exposure appear in 2 to 4 days after treatment. Weeds cease growing within 5-7 days and grow brown in growing points; leave chlorosis is observed.

Range of inhibited weeds

Annual and perennial grass weeds, including self-seeding of cereal crops and maize, quack grass, creeping finger grass, green valley grass, and others.

Usage regulations

Crop	Harmful plants	Preparation consumption rate, l/ha	Mix consumption rate, l/ha	Method, time and conditions of application. Application time for manual (machinery assisted) operations	Wait time (application frequency)

Sugar beet, sunflower, soybeans	Annual grass weeds	0.2-0.4	200-300	Planting spraying at 2-6 weed leaves stage regardless of crop growth phase using mix 0.5% of preparation surfactant Mikado, CE -(3)	60(1)
	Perennial grass weeds (quack grass)	0.7-1.0	200-300	Planting spraying with quack grass as high as 10-20 cm regardless of crop growth phase using mix 0.5% of preparation surfactant Mikado, CE -(3)	

The best result and quickest herbicide action of the preparation are achieved by:

- plant treatment in the morning at ambient temperature of +25 °C;
- minimum preparation doses while observing optimal treatment timing;
- maximum doses – in case of high weed content and overgrown weeds.

Application technique. Mix preparation method

Prepare the mix immediately before use. Stir thoroughly the preparation before mixing.

Fill the sprayer tank with water to 2/3 of its volume, slowly add the entire preparation dose while stirring, and rinse the container with preparation remainders several times with water. Pour water after rinsing the preparation container to the sprayer tank and top up with remaining water while continuously stirring, then add the required amount of surfactant.

Prepare the mix and fill the sprayer on dedicated sites that are disinfected afterwards.

Use ground-based beam sprayers Amazone, OPSh-15-01, OPSh-3-24, ON-400, OP-2000-2-01, or similar.

Max. mix concentration – 0.5% of preparation.

Compatibility

Efficient when used alone.

Using a clethodim preparation in mixes with other preparations may result in reduced efficiency. Check for physical compatibility with other preparations in a small vessel before mixing, and meet usage regulations and recommendations for all components of the mix. Do not commingle with fertilizers.

Potential for resistance

No facts of resistance to clethodim preparations were revealed. To prevent resistance of cereal weeds to the preparation, alternate, where possible, herbicides with different mechanisms of action.

Phytotoxicity

No delays in crop growth and development is recorded when the preparation is used in recommended doses.

Recommendations on protection of valuable flora and fauna objects, limitations

The preparation is of low hazard to bees and fish – Hazard Class 3.

Basic provisions of the 'Guidelines for preventing bee poisoning with pesticides' and following environmental regulations:

treat plants early in the morning and evening at wind speed up to 4 or 5 m/sec;

protection boundary zone for bees – min. 2-3 km;

bee's flight time limitation – 3-4 hours.

Warn apiary owners 4 or 5 days before treatment.

The preparation may be used within the sanitary zone of fishery water bodies.

General information

Chemical class

Cyclohexanedione

Transport and storage conditions

Comply with all conventional rules of toxic substance transport. Keep the preparation in a room dedicated for pesticide storage. Storage temperature range - minus 10 °C to plus 25 °C. Stir before use

Shelf life

2 years

Hazard class

Hazard Class 3, moderately hazardous substance

Packing

5 liter PE container

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia