



Forward, OEC

oil emulsion concentrate

quizalofop-P-ethyl 60 g/l

Postemergence herbicide intended to control annual and perennial grass weeds on plantings of sugar beet, soybeans, rapeseed, sunflower, common flax, oilseed flax, pea, and chickpea.

Advantages:

- Highly effective at reduced concentration of the active ingredient due to innovative formulation OEC
- Particles of the active ingredient in oil emulsion are at a fine state, thus providing highest stability and homogeneity of the sprayed solution, which promotes deep penetration of the preparation
- Efficient against most malicious grass weeds - quack grass, oat grass, barnyard grass, blue couch grass, etc.
- Exterminates weeds together with their root system
- Compatibility with other preparations in mixes
- Treatment regardless of crop growth phase

— No crop rotation limitations

Action

Mode of action

Oil emulsion concentrate improves significantly herbicide absorption by weeds. Particularly, oil serves as a conductor of the active ingredient through the wax layer of a leaf and facilitates preparation penetration in deeper layers of a weed. Particles of the active ingredient in oil emulsion are at a fine state, thus providing highest stability and homogeneity of the sprayed solution, which promotes deep penetration of the preparation; when applied on a weed, oil emulsion distributes evenly and forms a film on the leaf surface preventing preparation evaporation and washing-off. This helps maintain preparation activity that does not depend on weather conditions. Demonstrating a high systemic activity, the active ingredient quickly moves to growing points of roots and shoots, while exterminating weeds together with their root systems and preventing regrowing. Thus, Forward, OEC demonstrates its maximum efficiency in any weather conditions and ensures the highest level of weed control.

Protective period

Protects the crop against weeds throughout the vegetation period. The preparation is absorbed by leaves and moves to sprout and rootstock growing points, and has a herbicidal effect on sensitive weeds present on plantings during treatment.

Speed of action

Weeds cease growing immediately after treatment. First signs of exposure appear in 7 to 10 days, and weeds perish in 2 or 3 weeks.

Range of inhibited weeds

Annual grass weeds - foxtail grass, apera, common oat grass, barnyard grass, ribbon grass, yellow bristle grass, green bristle grass, crabgrass, ryegrass, brome grass, annual meadow grass.

Perennial grass weeds - quack grass, scutch grass, green valley grass, herd grass, rough-stalked meadow grass, signal grass, common reed.

Usage regulations

Crop	Harmful object	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)
Beet and table beet, soybean, spring and winter rapeseed, sunflower, pea, chickpea	Annual grass weeds	0.9-1.2 0.9-1.2 (A)	200-300 25-50	Spraying of plantings at 2-4 leaves stage of weeds -(3)	60(1)
	Perennial grass weeds (quack grass)	1.2-2.0 1.2-2.0 (A)		Planting spraying as quack grass becomes as high as 10-15 cm-(3)	
Common flax, oilseed flax	Annual grass weeds	0.9-1.2 0.9-1.2 (A)	200-300 25-50	Planting spraying at 2-4 leaves stage of annual weeds and as quack grass becomes as high as 10-15 cm ('herringbone' stage of flax) -(3)	60(1)
	Perennial (quack grass) and annual grass weeds	1.2-2.0 1.2-2.0 (A)			

(A) - aerial treatment

Application technique. Mix preparation method

Prepare the mix immediately before use. Stir thoroughly the preparation in its factory package and dose an amount required for a single fill of the sprayer. Then prepare the mix as follows. Pour the preparation dose into the sprayer tank filled with water to 1/2. Top up the sprayer tank with water while continuously stirring the mix using a hydraulic agitator.

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

Use ground-based boom sprayers Amazone, OPSH-15, OP-2001, or similar.

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

- Treatment of actively growing weeds. It is important that these have enough leaves for fast absorption of the active ingredient. The herbicide should not be used to treat crops that are under stress due to frost, wind, attack by insects, inadequate nutrition, and previously applied herbicides.

Compatibility

The herbicide may be used in mixes with Betaren series preparations on beet plantings, clopyralid preparations (Lornet) on beet plantings, permitted herbicides against dicotyledonous weeds on soybean and flax plantings. In each specific case, the components to be commingled should be checked for physical and chemical compatibility.

Potential for resistance

No facts of resistance to preparation were revealed.

Phytotoxicity

It does not have phytotoxic effect on most dicotyledonous crops, but exterminates annual and perennial cereal weeds, including quack grass.

Recommendations on protection of valuable flora and fauna objects

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 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.

Do not use the preparation in private farms and by aerial method.

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

General information

Chemical class

aryloxyphenoxypropionates

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 15 °C to plus 35 °C. Stir before use

Shelf life

5 years

Hazard class

Hazard Class 3, moderately hazardous substance

Packing

10 liter PE container

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia