



Shkval, SL

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soluble concentrate, soluble liquid

imazapyr 250 g/l

Systemic herbicide of continuous action intended to control annual and perennial grass and broad-leaved (including tree species) plants at non-agricultural facilities

Advantages:

- Much more efficient than glyphosate herbicides
- Excellent soil activity - 100% control of unwanted vegetation for 2 years
- Reliable exterminates herbs, shrubs and trees, including difficult-to-eradicate and quarantine weeds (willow, blackberry, bindweed, Russian centaury, etc.)
- An innovative way to create protective mineralized strips
- May be applied both before weed emergence and over emerged weeds
- Unlimited timing of protective measures

- No adverse effect from precipitation in an hour after treatment
- Quickly penetrates and exterminates plants under a layer of dust and oil
- Steadily high efficiency in all regions of Russia with different soil and climatic conditions and species composition of unwanted vegetation

Action

Mode of action

The preparation is absorbed by roots and leaves, moves along phloem and xylem, and accumulates in growing points. The active ingredient inhibits synthesis of branched amino acids that control protein synthesis and cell growth. This results in impairment of protein synthesis, thus disturbing DNA synthesis and retardation of weed cell growth.

Protective period

Protects against weeds for at least a season. On non-agricultural lands, the effect from the preparation may last for 3 to 5 years.

Rate of exposure

Visible signs of herbicide action on annual weeds are observed within 2–4 days, while on most perennials, they appear after 7–10 days. Weed die-off occurs 2–4 weeks after treatment. Arboricidal effects on tree and shrub vegetation (leaf drop) take place within 1 month or more after treatment.

Action spectrum

This product is effective on all types of herbaceous and woody-shrub vegetation.

Application

Non-agricultural lands (protection zones of power transmission lines, glades, routes of gas and oil pipelines, embankments, and right-of-ways for rail and motor roads, aerodromes and other industrial sites).

Usage regulations

Crop / object of treatment	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)
Non-agricultural lands (protection zones of power transmission lines, glades, routes of gas and oil pipelines, embankments, and right-of-ways for rail and motor roads, aerodromes and other industrial sites),	All kinds of weeds, including ragweed and Russian centaury	2-2.5	100-300	Treatment of weeds at their earlier stages of growth, including ragweed at 2-4 leaves stage and Russian centaury at shooting stage 15(15)	-(1)
the creation of anti-fire mineralized strips	All kinds of unwanted herbs and trees (asp, birch, alder, willow, pine, fir, etc.)	2-5	100-300	Treatment of vegetating plants and soil in April to September 15(15)	

Product application features

In addition to spraying, other methods can be used to control unwanted woody vegetation:

- Treating freshly cut stumps of hardwood trees to prevent root sprouting
- Injecting into tree trunks

Application technique. Mix preparation method

Prepare the mix immediately before use. Stir thoroughly in the factory packing the preparation before mixing. Fill the sprayer tank with water to 1/3, add the full preparation dose, and then top up with remaining water to the required volume and stir.

Use backpack sprayers and ground-based boom sprayers OPSh-15-01, OPV-1200-01, ON-400, OP-2000-2-01, or similar.

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

Compatibility

Efficient when used alone. May be mixed with other herbicides.

Phytotoxicity

No resistant crops.

Recommendations on protection of valuable flora and fauna objects

The preparation is of low hazard to bees – Hazard Class 3, of hazard to fish – Hazard Class 2. 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 apply the preparation by aerial method within the sanitary zone of fishery water bodies 500 m away from the flood line in case of maximum floodwater level, but not closer than 2 km to the existing banks.

General information

Chemical class

imidazolinones

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

3 years

Hazard class

Hazard class 2, high danger

Packing

10 liter PE container

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia