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Sprut Extra, SL

soluble liquid

glyphosate acid /potassium salt/ 540 g/l

Non-selective systemic herbicide of continuous action intended to exterminate annual and perennial grass and dicotyledonous weeds, grassland, trees and shrubs.

Advantages:

- Most efficient among various glyphosate
- Glyphosate as potassium salt promotes fast absorption and spread of the active ingredient along the entire weed, including root system
- Elevated content of the active ingredient allows preparation application in reduced doses
- Optimal content of highly efficient adjuvant in the preparation maximizes bio-efficiency
- No soil activity, no aftereffects for the crop
- Allows application of energy-saving soil protection technologies
- Used at any above-zero ambient temperatures until persistent frost

Action

Mode of action

The preparation penetrates weeds through leaves and other green parts and spreads along all weed organs, including root system, while blocking synthesis of aromatic amino acids.

Protective period

Perennial weeds - throughout vegetation period, annual weeds - for 20-60 days or more (until regrowing from seeds).

Speed of action

Depending on weed growth intensity and weather conditions during treatment, herbicidal action is manifested in 5 to 10 days.

Range of inhibited weeds

Annual and perennial grass and dicotyledonous weeds, woody-shrub vegetation.

Compatibility

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

Probability of resistance

Long-term use of this herbicide is known to lead to the development of glyphosate-resistant populations of weeds from the Amaranth family, as well as wild radish, horseweed, threepartite ragweed, wormwood ragweed, field bluegrass, ryegrass species, Aleppo grass and cockspur.

Usage regulations

Crop	Harmful object	Consumption rates of preparation, l/ha	Consumption rates of working liquid, l/ha	Method, treatment time, and application features	Safety intervals (treatment frequency)
Fields intended for cereal and other crops cultivated with minimum or zero treatment effort	Annual dicotyledonous and grass weeds	1.4-2.5	100-200	Treatment of vegetating weeds in spring before sowing or crop emergence	-(1)
	Perennial grass and dicotyledonous weeds	2.5-4			
Fields intended for various crops (cereals, legumes, potato, industrial (including flax), oil plants, cucurbits crops, floricultural crops and other spring crops)	Annual dicotyledonous and grass weeds	1.4-2.5		Treatment of vegetating weds in spring or before crop emergence	
	Perennial grass and dicotyledonous weeds	2.5-4.0			
Fallow lands	Annual and perennial grass and dicotyledonous weeds	1.4-2.8		Treatment of vegetating weeds during their active growth	

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)	Annual and sensitive perennial unwanted grass and dicotyledonous herbs	Treatment of unwanted weeds. Do not gather berries and mushrooms during treatment of non-agricultural lands	
	All types of undesirable herbaceous plants (except relatively resistant reedgrass, reed), deciduous tree and shrub species (aspen, birch, alder)		2.0-3.0
	All kinds of unwanted herbs (except resistant species of woodreed, reed and others), deciduous trees and shrubs (asp, birch, alder)		3-5

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)	Annual and perennial grasses and dicotyledonous weeds, including borscht of Sosnovsky	2,0-3,0	100-200	Spraying of vegetating plants of different ages of pine-borscht with a height of 20-40 cm. The duration of the protective period is 30-45 days. The period of possible stay of people in the treated territories is not earlier than 15 days after processing. The collection of wild mushrooms and berries in the processing season is not allowed	-(1)

Application technique. Mix preparation method Prepare the mix immediately before use and apply during the same day.
Fill the sprayer tank with water to 1/3, turn the agitator on, add the full preparation dose, and then top up with remaining water. Stir the contents thoroughly.

Recommended equipment:
ground-based boom sprayers Amazone, OPSh-15-01, OP-2000-2-01, or similar.

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

— Treatment during active weed growth in wet conditions. In dry weather, treatment efficiency is reduced.

An interval of at least 3 or 4 hours shall be between treatment and potential precipitation.

Phytotoxicity
General action herbicide; no resistant weeds known. No crops resistant to glyphosate, except transgenic ones.

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 in the morning or evening:
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.
The preparation may be used within the sanitary zone of fishery water bodies.

General information

Chemical class

glycine derivatives

Transport and storage conditions

Keep the preparation in a room dedicated for pesticide storage. Storage temperature range - minus 15 C to plus 30 C. At below minus 15 C, the preparation solidifies partially, but restores its properties fully after defrosting. In case of defrosting, stir the preparation thoroughly before use.

Shelf life

3 years.

Hazard class

Hazard class 2, highly hazardous substance

Packing

10 liter PE container

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia