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Mitron, SC

suspension concentrate

metamitron 700 g/l

Systemic herbicide intended to control multiple species of annual dicotyledonous weeds on beet plantings.

Advantages:

- Ensure initial planting cleanliness as a pre-emergence herbicide
- Produces a powerful ‘screen' against subsequent weed emergence
- Mild effect upon the crop
- Easily tolerated by beet plants regardless of the application method
- Extended protective period when used as a component of mixes with Betaren series herbicides
- Acts in a wider range of temperatures than betanal group preparations
- Maximum efficiency achieved as a result of effect through both soil and leaves

Action

Mode of action

The preparation has systemic activity. It penetrates through roots, but may penetrate plants through the lamina as well. The preparation moves in an acropetal manner. Its herbicidal effect consists in inhibition of the Hill reaction during photosynthesis.

Protective period

Protects the crop during 3 to 8 weeks depending on temperature, climatic conditions and soil type.

Speed of action

Visible signs of weed inhibition appear in 2 to 7 days with weeds perishing totally in 2 or 3 weeks. In case of postemergence treatment, preparation effect on weed sprouts appears in 5 to 10 days.

Range of inhibited weeds

Annual dicotyledonous weeds

Sensitive species: speedwell (species), pepper plant (species), charlock, loesel (species), tansy mustard, common fumitory, satin flower, common groundsel, orach (species), pigweed (species), caseweed, houndsberry, hemp nettle (species), catch weed, common purslane, chamomile (species), wild radish, amaranth (species), dish mustard, day-nettle, field pansy.

Compatibility

It is recommended to use in mixes with other herbicides, mainly of betanal group, Healer, OEC; Censor, EC; Forward, OEC; Action, SC; Lornet, SL; Betaren 22, OEC; Betaren Super MD, OEC; Betaren Express AM, EC. In each specific case, the components to be commingled shall be checked for physical and chemical compatibility.

Potential for resistance

No facts of resistance to preparation were revealed.

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)
Sugar, table, fodder beet	Annual dicotyledonous weeds	1.5-2.0	200-300	Planting spraying after weed emergence (at seed lead stage for dicotyledonous weed and first list stage for grass weeds) and further treatment in 8-14 days if weeds start regrowing once again -(3)	60(2)

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, add slowly the required preparation dose and stir by switching the sprayer agitator on. Then top up the tank with water until full and again switch the agitator on for 10-15 min. Rinse the vessel that contained the preparation several times with water and pour it into the sprayer tank.

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

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

Phytotoxicity

The preparation does not pose phytotoxic effect on crops protected when used in recommended doses.

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 and evening at wind speed up to 4 to 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, by aerial method and 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
triazine
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 35 C. Stir before use.
Shelf life
2 years
Hazard class
Hazard class 2, dangerous compound
Packing
10 liter PE container
Registrant
Schelkovo Agrohim, Russia
Manufacturer
Schelkovo Agrohim, Russia