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Betaren 22, OEC

oil emulsion concentrate

phenmedipham 110 g/l + desmedipham 110 g/l

Postemergence herbicide for controlling annual dicotyledonous weeds, including amaranth, on sugar beet plantings.

Advantages:

— Herbicide of the EcoPlus series with increased biological efficiency at a reduced concentration of active ingredients

— Mild effect on crops

— Rapid destruction of weeds because of high penetration power due to oil formulation

— Highly effective control of annual dicotyledonous weeds, including goosefoot, amaranth species, and others

— Excellent compatibility with other herbicides in tank mixtures to expand the action spectrum

Action

Mode of action

Active ingredients inhibit photosynthesis, carbon dioxide digestion by plants, and phosphorylation process, thus causing disturbance of the energy balance and basic metabolic reactions. Phenmedipham and desmedipham penetrate through leaves and have a translaminar effect.
Oil emulsion concentrate improves significantly herbicide absorption. 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. 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.

Protective period

The preparation affects weeds present in the plantings during spraying, and its action time depends on time before the next wave of weeds, which is function of weather conditions during application. If the second wave appears with a delay, the action time will amount to 3 or 4 weeks or more, i.e. beet plants will demonstrate normal growth at their earlier stages, when the crop is most sensible to weeds.

Speed of action

Visible signs of exposure appear in 4 to 8 days after treatment.

Range of inhibited weeds

Annual dicotyledonous weeds, including field mustard, wild radish, common hemp-nettle, amaranth species, cleavers, chickweed, field pennycress, lamb's quarters, knotweed species, common groundsel, common goose-foot, purple dead-nettle..

Compatibility with other pesticides

To enhance the spectrum of action, use a preparation containing herbicides against cereals (Healer, Forward, etc.) and against sow thistle (Lornet).

Usage regulations

Crop	Harmful object	Consumption rates of preparation, l/ha	Consumption rates of working liquid, l/ha	Method, treatment time, and application features. Period of manual (mechanized) work	Safety intervals (treatment frequency)

Sugar beet, fodder beet	Annual dicotyledonous weeds (including amaranth species)	1	100-200	spraying of plantings at seed leaf stage of weed growth (1st, 2nd and 3rd waves) -(3)	60(3)
		1.5		Successive spraying at 2-4 leaves stage of weed development (1st and 2nd waves) -(3)	60(2)
		3		Planting spraying at 4 real leaves stage and earlier stages of weed growth -(3)	60(1)

Product application features

The best result and the fastest herbicidal effect of the drug is achieved due to:

• treatment of crops in the early stages of weed development;

• crop treatment in the most favorable weather conditions. The optimum ambient temperature is from 10 to max. 25 ° C. Do not apply to beet crops weakened by frost, heat and pests.

Application technique. Mix preparation method

Prepare the mix immediately before use and apply during the same day. The sprayer shall be provided with an agitator and water pump for filling. The agitator shall be activated as water starts flowing into the tank. To prepare the mix, fill the sprayer tank with a small amount of water (1/4 of volume), then add the preparation dose and top up with water to the required volume while intensively stirring the mix.

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

When using prepared herbicide mixes, these shall be prepared in line with the recommendations for each particular preparation.

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

Phytotoxicity

Do not apply on beet plantings weakened by frosts, heat, and pests

General information

Chemical class

carbamates

Storage conditions

Keep the preparation in a room dedicated for pesticide storage. Storage temperature range – minus 10 C to plus 35 C.

Shelf life

3 years

Hazard class

Hazard class 3, moderate hazard

Packing

5 liter PE container

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia