



Zontran, CSC

colloid solution concentrate

metribuzin 250 g/l

System herbicide in an innovative formulation for controlling a wide range of dicotyledonous and grass weeds on potatoes, tomatoes, soybeans, chickpeas, lupine, winter wheat.

Advantages:

- Highly effective at reduced concentration of the active ingredient due to innovative formulation CSC
- Most efficient herbicide based on metribuzin for potato and tomato protection
- High bio-activity at consumption rates of the active ingredient reduced by 1.4 to 1.7 times per ha compared to similar dry metribuzin based preparations
- 'Screening effect' to prevent emergence of weeds
- Better penetration into the plant
- Reduced pesticide load and cost of treatment

- Mix stability
- The preparation contains bioactivator
- Timely ravage of weeds with Zontran reduces the risk of buck eye rot on potato plantings

Action

Mode of action

The mode of action is based on inhibiting transport of electrons involved in photosynthesis. The preparation moves in an acropetal manner. The active ingredient is easily absorbed by roots and rootlets of plants, but may also penetrate through leaves.

The formulation - colloid solution concentrate - allows fast metribuzin penetration into the plant and good preparation adhesion to the leaf. This makes the preparation bio-efficient at a reduced metribuzin dose.

Protective period

The preparation effectively suppresses rootlets of vegetating seeds and defers the second way of weeds. The preparation frees plantings from weeds for 1 month depending on weather conditions during the vegetation period.

Speed of action

Weeds cease growing as soon as these are treated with the preparation. Visible signs of exposure appear in 2 to 7 days, and weeds perish in 10 to 15 days after treatment.

Spectrum of action

Annual dicotyledonous and grass weeds

Sensitive species: bluebottle, speedwell (species), knotweed (species), charlock, tansy mustard, sheep bur, common fumitory, bur grass (species), satin, spring groundsel, pigweed (species), copper rose, loose silky bent, milkweed (species), rough-stalked bluegrass, oat grass, dandelion (species), caseweed, hemp nettle (species), ryegrass (species), wild radish, chamomile (species), crabgrass, bladder campion, sandweed, foxtail (species), amaranth (species), day-nettle.

Moderately sensitive species: Canadian thistle, velvetleaf, foxtail, field scorpion grass, sow thistle (species), houndsberry, common purslane, field chamomile, quack grass, sorgho (species), field pansy, dish mustard.

Feebly sensitive species: ragweed, catch weed.

Usage regulations

Crop / object of treatment	Harmful object	Consumption rate preparation, l/ha	Consumption rate mix, l/ha	Method, time and conditions of application	Wait time (application frequency)
Potato	Annual dicotyledonous and grass weeds	1+ (0.4-0.6)	200-300	Treatment of vegetating weeds before crop emergence and further treatment as tops become as high as 5 cm	30(2)
		1.1-1.4	300-400	Treatment as tops become as high as 5 cm	30(1)
Seed tomato (field-seeded)		0.4+0.8	300-400	Planting spraying successively at 1-2 crop leaves stage and 2-4 crop leaves stage	60(2)
		1.2-1.5	300-400	Spraying of plantings at 2-4 crop leaves stage	60(1)
Transplanted tomato		1.7	500	Treatment of weeds in 15 to 20 days after transplantation	

Soybeans	0.6-1.2	200-300	Soil treatment before crop emergence		
Chickpeas	1.0-1.5	200-300	Treatment of vegetating weeds before crop emergence	60(1)	
Winter wheat	0.3-0.5	200-300	Planting spraying in autumn at crop tillering stage and earlier stages of weed growth	-(1)	
Lupin	Annual dicotyledonous and grass weeds	1.0-1.5			200-300

Caution! The maximum concentration of the working solution must not exceed 0.5 % of the formulated product.

Application technique. Mix preparation method

Stir before use.

Prepare the mix immediately before use. Fill the sprayer tank with water to 3/4 of its volume, slowly add the entire preparation dose while stirring, and rinse the container with preparation remainders several times with water. Pour water after rinsing the preparation container to the sprayer tank and top up with remaining water until full while continuously stirring.

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

Use ground-based beam sprayers OPSh-15-01, OPSh-3-24, ON-400, OP-2000-2-01, or similar.

Max. mix concentration – 0.5% of preparation.

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

- treatment at earlier stages of weed growth;
- under favorable growth conditions (optimal humidity and temperature).

If recommendations on preparation application timing and rates are met, no adverse effect on crops is noted. In specific cases, signs of phytotoxicity may be visible during the first days after application, but these do not affect further crop development. Plantings shall not be treated that the crop is under stress (drought, overwatering of heavy soils, plantings attacked by diseases or pests).

Compatibility

Compatible with most herbicides, fungicides, and insecticides applied to agricultural crops. In each specific case, especially when mixed with microfertilizers, the components to be commingled shall be checked for physical and chemical compatibility.

Potential for resistance

No cases of weed resistance to the preparation are recorded.

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. 1-2 km;

bee's flight time limitation – 5-6 hours.

Warn apiary owners 4 or 5 days before treatment.

General information

Chemical class triazinones

Transport and storage conditions

Comply with all conventional rules of toxic and explosive substance transport. Keep the preparation in a room dedicated for pesticide storage.

Storage temperature range - minus 10 °C to plus 30 °C. Stir before use

Shelf life

Shelf life: 5 years

Hazard class

Hazard class 3, moderate hazard

Packing

5 liter PE container

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia