



Titul DUO, CSC

colloid solution concentrate

propiconazole 200 g/l + tebuconazole 200 g/l

Systemic fungicide against a wide range of diseases on cereal crops.

Advantages:

- Highly effective at reduced concentration of the active ingredient due to innovative preparative form CSC;
- A wide range of effects and reliable protection during vegetation;
- Protective period up to 40 days;
- Fast penetration into the plant and prolonged preparation activity;
- Reduced dependence on adverse weather conditions;
- No case of resistance;
- Growth stimulating activity ('green leaf' effect);
- Extended vegetation period and life of flag;

— Quality grain.

Action

Mode of action

The preparation penetrates plants through leaves and stalks and moves in an acropetal way. It produces a fungicidal effect of vegetative organs of fungi and inhibits sporogenesis. It inhibits biosynthesis of ergosterol (principal steroid compound of most fungi) regulating permeability of the cell membrane.

Protective period

3 to 6 weeks.

Speed of action

Visible signs appear in 3 to 7 days.

Spectrum of action

Oidium, Pyrenophora leaf blight, brown rust, yellow rust, stem rust, dwarf rust, Rhynchosporia blight, Septoria blight, netted spotting, dark brown spot, Fusarium blight of the head, etc.

Usage regulations

Crop / object of treatment	Harmful object	Preparation consumption rate, l/ha	Mix consumption rate, l/ha	Method, time and conditions of application	Wait time (application frequency)

Spring and winter wheat	Oidium, brown rust, stem rust, yellow rust	0.25	200-400	Treatment during vegetation at 'flag – start of ear formation' stages, against Fusarium blight of the head – end of ear formation to start of blossoming	40(1-2)
	Septoria blight, Pyrenophora leaf blight	0.25-0.32			
	Fusarium blight of the head	0.32			
Spring and winter barley	Oidium, dwarf rust	0.25	200-400	Treatment during vegetation at 'flag – ear extension' stages	40(1-2)
	Dark brown spot, netted spotting, Septoria blight, Rhynchosporia blight	0.25-0.32			
Winter rye	Brown rust, stem rust, Septoria blight, Rhynchosporia blight, oidium	0.25	200-400	Treatment of plants during vegetation period	40(1-2)
Sugar beet	Cercospora blight, oidium, Phoma rot	0.3-0.4	200-400	Spraying during the growth period after the first signs of one of the diseases. Subsequent spraying at an interval of 10-14 days (where necessary)	40(1-2)

Sunflower	Verticillium withering, dry-rot of anthodes, Alternaria blight, white and gray rot	0.4-0.5	200-400	Spraying during the growth period after the first signs of one of the diseases. Subsequent spraying at an interval of 10-14 days, but not later than the end of budding the beginning of flowering.	40(1-2)
Spring rapeseed	Alternaria blight, oidium, Phoma rot, retarding action (winter crop)	0.4-0.5	200-400	Spraying during the growth period after the first signs of one of the diseases, during the stem stretching the beginning of pod formation in the lower layer.	30(1)
Winter rapeseed				Spraying during the growth period, in 6-8 leaves phase, in autumn and spring, after the first signs of one of the diseases, during the stem stretching the beginning of pod formation in the lower layer	30(2)
Pea	Rust, oidium, Ascochyta blight, false mildew, anthracnose	0.32-0.4	200-400	Spraying during the growth period after the first signs of one of the diseases. Subsequent spraying at an interval of 10-14 days.	30(1-2)

Product application features

It is recommended to treat even crops not affected by diseases: due to growth-stimulating activity and a clear manifestation of the green leaf effect, a significant increase in yield is achieved.

Do not use the product when the crop is under stress due to pest attack, frost, or heavy rain.

Application technique. Mix preparation method

Prepare the mix immediately before use.

Fill the sprayer tank with water to 1/2 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 boom sprayers Amazone, OP-2000-2-01, or similar.

Compatibility with other pesticides

Efficient when used alone. Check for physical and chemical compatibility before use of mixes with other plant protective chemicals.

Potential for resistance

None.

Phytotoxicity

No phytocide effect is recorded. Do not use the preparation when the crop is under stress due to pest attack, frost, or heavy rains.

Recommendations on protection of valuable flora and fauna objects

The preparation is of low hazard to bees and fish – Hazard Class 3.

The following environmental regulations shall be met:

treat plants in morning and 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 – 5-6 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

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

5 years

Hazard class

Hazard class 2, dangerous compound

Packing

5, 10 liter PE container

Registrant

Schelkovo Agrohim, Russia

Manufacturer

Schelkovo Agrohim, Russia