

# clodinafop-propargyl

ALWAYS READ AND FOLLOW THE LABEL

Information on this page is not to be substituted for label directions

**Active Ingredient (a.i.):**

clodinafop-propargyl

**Target Pest Category:**

herbicide



**Examples of Trade Names:**

Horizon, Harmony, Platinum

**Chemical Family:**

Clodinafop-propargyl is in the chemical family Aryloxyphenoxy propionates.

**Types of Formulation:**

liquid, emulsifiable concentrate

**What it is:**

Clodinafop-propargyl is a systemic, post-emergence herbicide for selected grass control in spring and Durum wheat.

**How it works (Mode of Action):**

Clodinafop-propargyl is absorbed by the leaves and rapidly translocated to the growing points of leaves and stems. It interferes with the production of fatty acids needed for plant growth in susceptible grassy weeds.

**Toxicity based on pure active ingredient:**

Species	LD <sub>50</sub> /LC <sub>50</sub>	*Relative Toxicity
Mammal (rat)	LD <sub>50</sub> Oral : 1828 mg/kg	Slightly toxic
	LD <sub>50</sub> Dermal : >2000 mg/kg	Slightly toxic
Bird (quail) (8 days)	LD <sub>50</sub> > 1455 mg/kg	Practically non-toxic
Bees (honey) (48 hour)	LD <sub>50</sub> Oral, Contact: >100 µg/bee	Practically non-toxic
Fish (trout) (96 hour)	LC <sub>50</sub> 0.39 mg/L	Highly toxic
Other ( <i>Daphnia</i> ) (48 hour)	LC <sub>50</sub> >74 mg/L	-

\*For description of relative toxicity categories please click here.

**What it controls:**

Controls grasses such as green foxtail, barnyard grass, Persian darnel and volunteer canary seed (See specific product label) in spring and Durum wheat. Broadleaved weeds are not controlled.

**Application Timing:**

For optimum results, apply herbicide to actively growing weeds. An early application will maximize crop yields by reducing weed competition. Weeds emerging after application of the herbicide will not be controlled.

**Mixing Instructions:**

Clodinafop-propargyl can be tank mixed with broadleaved herbicides and some insecticides as described on the label. Consult the label of the tank-mix partner for a list of: broadleaved weeds or insects controlled, rates, timing, re-cropping restrictions, grazing interval restrictions, recommendations for specific weeds/insects, directions for use and precautions. Various adjuvants are recommended (see product label) for improved effectiveness.



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**Restrictions:**

- Observe minimum interval to harvest of 60 days after treatment.
- Do not apply on barley or any crop other than spring wheat or Durum wheat, as crop damage will result.
- Do not allow spray to drift to adjacent fields seeded to crops other than spring wheat or Durum wheat.
- Do not treat wheat underseeded to forages.
- Observe a minimum of three days before grazing livestock on crops treated with the herbicide.

**Application Tips:**

- Thorough coverage of the plants is essential for consistent control.
- Rainfast in 30 minutes
- Stress conditions may reduce effectiveness
- Avoid use during cold weather
- 60 day pre-harvest interval

**Environmental Considerations:**

- Breaks down rapidly in soil. The herbicide is mobile in soil.
- Do not apply within 15 metres of a wetland area or any body of water. This product is moderately toxic to aquatic organisms. Avoid contamination of aquatic systems during application.
- Crop injury may occur with tank-mixes under extreme weather conditions.

**Storage:**

- Keep in original container in a cool, dry, well ventilated room.
- Do **not** allow to freeze.

**How long it takes/Expected Results:**

Actively growing susceptible grasses stop growing within 48 hours of treatment. Depending on the species, growing conditions and crop competition, leaves and growing points turn yellow within one to three weeks after application. Further colour changes and loss of vigour will be observed, followed by a browning and complete control three to five weeks after application. For specific timing of application please see the label.

**Applicator Safety and Re-entry:**

No specific antidote is available. This product contains materials that may cause severe pneumonitis if aspirated. Irritating to the skin and eyes. Treat symptomatically for ingestion and/or skin and eye contact. Please read the label for further precautions.

**Resistance Management:**

Where possible rotate the use of clodinafop-propargyl with different herbicide groups that control the same weeds. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.

**Special Instructions:**

Clodinafop-propargyl can only be used in the Okanagan, Peace River and Creston Flats region of British Columbia. Do not apply to crop that is stressed by conditions such as frost, low fertility, drought, flooding, disease or insect damage as crop injury may result.

**Pesticide Labels:**

To find labels for pesticides registered in Canada, please link to the Pest Management Regulatory Agency (PMRA) label search web page:

<http://www.eddenet.pmra-arla.gc.ca/4.0/4.01.asp>