



ADAMA

Raptor® herbicide

Raptor herbicide provides early post-emergent control of key grasses and broadleaf weeds in winter and summer legumes with a high level of crop safety.

Product overview

Raptor is registered for the early post-emergent control of key grasses and broadleaf weeds in legume pastures, lucerne, field peas, peanuts and soybeans. It provides robust control of susceptible seedling barley grass, banyard and brome grass, as well as controlling or suppressing key broadleaf weeds such as bell vine, deadnettle, *Erodium* spp., Indian hedge mustard and turnip weed. Raptor is ideal for producing high-quality hay. It removes weed competition without desiccating pasture or impacting grazing.

Mode of action

GROUP B HERBICIDE

Raptor WG is a concentrated granule formulation that contains 700 g/kg of the active ingredient, imazamox. Imazamox is a member of the imidazolinone family of herbicides, which inhibit the acetolactate synthase (ALS) enzyme. The active ingredient is absorbed primarily through the leaves of treated plants. Susceptible plants stop growing within hours of application. Foliar chlorosis, necrosis and plant death occur within a few weeks. Raptor suppresses some species (e.g. silver grass, chickweed and wild radish) by stunting growth, thereby reducing competition with the crop or pasture. Imazamox is broken down by microbial activity in the soil. Residual activity in comparison to other members of the imidazolinone family is limited. Residual activity is dependent on soil temperature, moisture and soil pH. Breakdown will be increased in soils with high organic matter content and in warm alkaline soils with good soil moisture.

At a glance

Broad spectrum weed control	Raptor provides robust early post-emergent control of key grasses and broadleaf weeds in legume pastures, field peas, peanuts and soybeans.
Flexible application window in lucerne	Raptor has a flexible application window in lucerne and is ideal for producing high-quality hay.
Excellent crop safety	Raptor can be safely applied post-emergence to legume-based pastures, lucerne, field peas, peanuts and soybeans.
7 day WHP	Raptor has a grazing withholding period of just seven days, minimising disruption to grazing.
Convenient formulation	The concentrated granule formulation ensures easy handling and low application rates.

Weed growth stage

Apply to actively growing broadleaf weeds between the cotyledon and three leaf growth stages. Application to annual grass weeds can be made up to the two-tiller stage. Weed control and suppression is enhanced when application is made to small weeds and there is adequate crop competition.

Application rate

Raptor is applied at 45 to 50 g/ha in combination with an adjuvant as recommended on the product label. Apply Raptor by ground application only in a minimum water volume of 50 L/ha. Good spray coverage is critical for control. Only apply Raptor once per season. Raptor should be applied a minimum of two hours before rainfall or irrigation.



HERBICIDE

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Weeds controlled/suppressed

Weeds controlled	amaranth, barley grass, barnyard grass, bell vine, brome grass, deadnettle, fat hen, fierce thornapple, Indian hedge mustard, liverseed grass, mustard, storksbill (<i>erodium</i>), turnip weed, conventional volunteer cereals, volunteer lupins, wild gooseberry, wild oats, wild turnip
Weeds suppressed	anoda weed, awnless barnyard grass, blackberry nightshade, caltrop, chickweed, crabgrass, doublegee (spiny emex), noogoora burr, shepherds purse, three-horned bedstraw, vulpia (silver grass), wild radish, wireweed

Crop tolerance and safety

Raptor can be safely applied post-emergence to legume-based pastures, lucerne, field peas, peanuts and soybeans. Always refer to the product label for specific crop tolerance information and strategies to ensure crop safety. Shortening of plant internodes, biomass reduction and short-term transient yellowing may occur after application in some scenarios, such as poor growing conditions.

Crop rotations

Re-cropping intervals after application are influenced by the time of application, rainfall/irrigation after application and soil pH. Breakdown in the soil will be reduced in very dry seasons and carry-over residues can affect following susceptible crops.

Plant back to conventional winter cereals following application in winter: Do not apply Raptor later than the end of August. A minimum of 200 mm rainfall is required before sowing a conventional winter cereal. When applying to acidic soils (pH <5.5 (CaCl₂), a minimum of 300 mm rainfall must occur prior to sowing a winter cereal.

Plant back to susceptible crops following application in dryland summer crops: A minimum of 8 months and 500 mm rainfall is required before planting lucerne, conventional barley and wheat varieties. A minimum of 10 months and 800 mm rainfall is required before planting chickpeas, maize, sorghum, cotton, oats or sunflowers.

Refer to the product label for additional re-cropping interval guidelines, including following the application of Raptor in irrigated summer crops.

Compatibility

Raptor is compatible with MCPA*, simazine, dimethoate, Alpha-Scud® 100, Strike-Out® 500 and omethoate. DO NOT tank-mix with selective post-emergence grass herbicides. DO NOT apply other post-emergence grass herbicides following the use of Raptor until grasses have resumed active growth. Alternatively, apply the grass herbicide at least one day before using Raptor.

**DO NOT tank mix with either MCPA Amine or 2,4-D Amine when using in pastures.*

Restrictions

- DO NOT apply if a frost is forecasted.
- DO NOT use with Hasten* or Kwickin* on seedling lucerne.
- DO NOT apply to crops or weeds stressed by root or foliar diseases, water logging, nutrient deficiencies or extremes of temperature or moisture.
- Refer to the label for specific instructions when applying Raptor after some pre-emergent herbicides in field peas.

Withholding periods

Lucerne and legume pastures: DO NOT graze or cut for stock food for seven days after application

Peanuts and soybeans: DO NOT graze or cut for stock food for four weeks after application

Field peas: DO NOT graze or cut for stock food for six weeks after application

Harvest (field peas, peanuts and soybeans): Not required when used as directed



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