

Hyvar[®] X

HERBICIDE WETTABLE GRANULE

HYVAR X contains 800 g/kg bromacil (MOA Group 5)



Long-term weed control is simple with HYVAR[®] X

HYVAR X provides effective residual weed control in asparagus, citrus, pineapple, and in industrial areas, rights of way and non-crop agricultural areas.

Features

- Contains 800 g/kg bromacil
- Group 5 mode of action herbicide
- Dust-free WDG formulation
- Proven history and performance as a residual herbicide
- Excellent and reliable season-long weed control
- Controls a wide range of annual broadleaf and grass weeds

Background

HYVAR X HERBICIDE has a new formulation type, changing from a wettable powder to the new dust-free wettable granule formulation. The product remains an 800 g/kg of bromacil loading with all the same labelled uses in asparagus, citrus, pineapple, and industrial weed control.

Mode of Action

Bromacil, the active ingredient in HYVAR X, belongs to the Uracil class of herbicides under the group D1 Serine 264 binders that inhibit photosynthesis at photosystem II (Group 5). When applied to bare ground, and washed into the soil with irrigation or rain, the herbicide is absorbed via the roots of weeds and is then translocated to the leaves. The interaction of bromacil with photosystem II stops the weeds' ability to photosynthesise, and triggers a buildup of reactive oxygen species (ROS) which damage cell membranes, causing chlorosis (yellowing) first seen on leaf margins, followed by scorched or necrotic leaves, then death.

Application Method

Boom sprayer

Apply using a fixed boom or directed sprayer fitted with nozzles that deliver a coarse spray droplet, apply with 250–450 L of water per sprayed hectare for selective in-crop weed control and 1000–2000 L of water per sprayed hectare for industrial weed control, to attain suitable coverage of soil. To prevent nozzle blockage, strainer and nozzle filters should be 50 mesh or coarser. Using clean water, fill spray tank to 50–70% final volume. Begin vigorous agitation then steadily pour in the required amount of HYVAR X – DO NOT dump product all at once into spray tank. Then add the remaining water to the tank. Throughout the mixing and spraying operation, maintain spray tank agitation to keep material in suspension. Spray solution should not be left standing in the tank overnight.

Spot spraying

If applying to a large area, use a single-nozzle handgun that delivers 1000–2000 L of water per sprayed hectare at 600–800 kPa pressure. Large volumes must be mixed into a spray tank which has vigorous agitation to ensure adequate mixing and suspension of the material during application. For spot spraying small areas, use a knapsack or pressurised hand sprayer or watering can. Shake or stir frequently during the mixing and spraying operation.

Application Timing

For optimal residual control, apply to moist, well-prepared soil, which is trash- and clod-free, shortly before weed growth occurs. If emerged weeds are present, HYVAR X will control actively growing weeds up to 10 cm

in height when applied with a non-ionic surfactant at registered rates. If more established weeds are present, then HYVAR X can be applied with a registered knockdown herbicide. If weeds cover >20% of target soil surface, then weeds should be controlled by a registered knockdown herbicide prior to application of HYVAR X. Either rainfall or irrigation is required within 3–4 days of treatment to carry HYVAR X into the soil. With irrigation, thoroughly wet the entire treated area. During seasons when rainfall is limited, control of deep-rooted weeds may not be satisfactory. Following treatment, do not cultivate or disturb the soil surface.

Asparagus (older than 1 year)

Apply to established plantings after final cultivation and 3–4 weeks prior to spear emergence in spring or before the early cutting period. If needed, apply a second spray after harvest to keep fields weed-free.

Citrus (established orchards)

In the first year of use, apply in autumn and spring to weed-free ground. After 1–2 years of application, a single application per year may be adequate.

Pineapple

Immediately after planting and before planting material begins to grow, apply as a blanket spray to weed-free soil. If a directed inter-row spray is required, spray prior to flower differentiation.

Industrial weed control

Apply to bare soil or weeds <10 cm in height. Apply up to one week ahead of expected rainfall. Reapply when weeds reappear on sites.

Fence lines

Apply within 10 weeks of germination of winter weeds, and up to one week ahead of expected rainfall.

Crop Safety

Use lower labelled rates on lighter soils that are low in clay or organic matter. Higher rates can be used on heavier soils high in clay or organic matter. DO NOT allow the spray to contact the foliage or fruit of desirable plants. DO NOT replant any crops within three years of the last application as injury may occur.

Asparagus

Only use on established asparagus. DO NOT apply to newly seeded asparagus or to young plants during their first growing season after setting or to plants whose roots are exposed.

Citrus

Use caution on light sandy soils as crop yellowing may occur. DO NOT apply more than 9 kg/ha/year.

Pineapple

DO NOT spray over the top of plants. DO NOT apply more than 9 kg/ha/year. Only pineapples can be replanted into the same area within 3 years of the last application.

Sprayer Cleanup

DO NOT drain or flush equipment on or near desirable trees or other plants or where their roots may extend. Thoroughly clean all traces of HYVAR X from application equipment immediately after use. Flush tank, pump, hoses and boom with several changes of water or use All Clear* DS Tank and Boom cleaner according to label instructions. Remove nozzles, filters, and screens to clean these parts separately.

Environmental Protections

DO NOT apply or drain or flush equipment on or near desirable trees or other plants or where their roots may extend. Movement of soil from treated areas should be avoided because damage to off-target species may occur. DO NOT spray under weather conditions or from sprayer equipment that may cause spray to drift over nearby susceptible plants or crops, cropping lands or pastures. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

Key Weeds Controlled

HYVAR X controls key weeds across a wide range of situations, including:

GRASS WEEDS	BROADLEAF WEEDS
Annual ryegrass	Bathurst burr
Barley grass	Billygoat weed
Barnyard grass	Caltrop
Brome grass	Capeweed
Crowsfoot	Cobbler's peg
Guinea grass	Doublegee
Prairie grass	Fat-hen
Sourgrass	Fireweed
Summer grass	Khaki weed
Wild oats	Noogoora burr
Winter grass	Wild radish

Prior to using HYVAR X, check the label for the weeds registered for each situation.

Information and data referred to herein were generated using products and rates that were registered at the time, may include extracts from the product label and does not constitute the complete directions for use. Always read and follow product labels.

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