



ADAMA

Excalibur® IVM Herbicide

For control of certain grass and broadleaf weeds in forestry, roadsides, railways and industrial and commercial situations.

Product Overview

Excalibur® IVM is a Water-Dispersible Granule (WG) formulation containing **sulfometuron-methyl (750 g/kg)** as the active ingredient.

This herbicide offers effective post-emergent and short-term pre-emergent control (2-3 months) of broadleaf weeds and annual and perennial grasses in forestry and IVM applications. It is a versatile tool used to establish weed-free zones around tree plantations, industrial and commercial areas, buildings, power lines, guideposts, roadsides, railways and rights-of-way.

To strengthen activity, it is commonly utilised in mixes with other broadleaf herbicides (such as Victory® 600 Herbicide) to optimise broad spectrum control.

GROUP 2 HERBICIDE

Mode of Action

Sulfometuron-methyl, the active ingredient in Excalibur® IVM, is a broad-spectrum sulfonylurea herbicide that controls a wide range of weeds, including annual and perennial grasses, broadleaf weeds, and woody species. It is rapidly absorbed by both foliage and roots of sensitive plants. It works by inhibiting acetolactate synthase (ALS), an enzyme essential for the biosynthesis of branched-chain amino acids needed for plant growth. This leads to halted cell growth and eventual plant death.

Visual symptoms such as chlorosis may not appear for several days, however, root and shoot growth of sensitive plants is inhibited almost immediately. Plant death occurs 7-21 days after application.

As a pre-emergent it acts on roots, and as such requires 12-25mm of rainfall or irrigation to move the product into the root zone for root absorption.



Applications

Forestry Applications:

- **Pre-Plant *Pinus radiata*, *Eucalyptus globulus*, *E. nitens*:** 50-70g/ha. Allow 6 weeks prior to transplanting. May be mixed with knock-down herbicides e.g. glyphosate where weeds already exist.
- **Post-plant *Pinus radiata*, *Eucalyptus globulus*, *E. nitens*:** 50-70g/ha.

For use in *Pinus radiata* plantations in establishment phase only (2-15 months post-transplant). ONLY apply this product between May and September when trees are dormant.

For *Eucalyptus globulus*, *E. nitens* allow 12 months after transplant before application and apply ONLY as a directed inter-row spray.

Integrated Vegetation Management (IVM):

- Industrial rate ranges: 200g/ha to 800g/ha
- For roadside applications confine treatment to the area between the edge of the bitumen and the roadside shoulder
- May be mixed with knock-down herbicides e.g. glyphosate where weeds already exist.



HERBICIDE

Excalibur® IVM

At a glance

Broad-Spectrum Weed Control	Excalibur® IVM controls a broad range of troublesome annual and perennial weeds such as Barley Grass, Brome Grass, Capeweed, Clover, Cudweed, Fireweed, Fleabane, Rye Grass, Winter Grass, Sedges, Sida, Docks and Flatweeds.
Pre- and post-emergent Activity	Is absorbed by both foliage and roots. For pre-emergent activity, Excalibur® IVM must be watered in with rainfall or irrigation.
Short term pre-emergent activity	2-3 months of residual pre-emergent control
Selective Use in Forestry	When used as directed, Excalibur® IVM is safe for forestry species, reducing the risk of phytotoxicity to young trees during establishment.
Cost-Effectiveness	Reduces labour and material costs in large-scale operations
Compatibility	Excalibur® IVM is often used in combination with other herbicides, such as glyphosate, Galigan® 500 SC, Firepower® 900, Victory® 600, Simanex® Exonerate® or metsulfuron-methyl to enhance control of resistant weed species. For more information on compatibility contact your Adama representative.

How to get the best from Excalibur® IVM

- **Excalibur® IVM** provides control over a wide range of weed species, however, best control comes from targeting weeds pre-emergently or at the 4-leaf stage or below.
- **Excalibur® IVM** requires adequate soil moisture to be activated so it can provide optimum weed control. Under limited rainfall conditions, **Excalibur® IVM** may not provide satisfactory control of hard-to-kill annual and perennial weeds.
- In forestry, do not apply to alkaline soils (soil pH > 7) or on leached, sandy soils, low in organic matter as unacceptable phytotoxicity may occur.
- Application may be via boom sprayer, handgun, knapsack sprayer or aerially (helicopter) depending on situation.
- Field trials have shown the *Eucalyptus* and *Pinus* species are tolerant to **Excalibur® IVM** when used as directed, however, in some instances tree stunting may occur. This is usually short-lived and a full recovery is expected in the next growing season. This stunting can be attributed to a prolonged dry period, pH, organic matter and rate selection. Therefore, rate selection should suit soil and other conditions.
- In over-the-top spray post-plant treatment of *Pinus* species, growth tip dominance/damage may occur. Trees usually recover with no long-term growth impacts.
- Do not transplant seedlings into areas treated with **Excalibur® IVM** if they are smaller than 20 cm in height or are showing poor levels of vigour due to disease or environmental factors such as drought, frost, moisture or water logging.
- **Excalibur® IVM** is most effective when integrated into a comprehensive weed management program. Combining it with complementary products such as **Simanex®** or **Galigan® 500 SC** enhances its residual activity and post-emergence capabilities.



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