



# Exonerate®

## Knockdown Weed Control

### Product overview

Exonerate® is a soluble liquid formulation of glufosinate ammonium 200 g/L that provides consistent and cost effective weed control in commercial and industrial areas and rights of way situations

Exonerate® is formulated as a convenient, easy to handle liquid and can be tank-mixed with other herbicides to assist in speed of knockdown and even wider weed control spectrum

Exonerate® is registered to control over 80 species of grasses and broadleaved weeds.

### Mode of action

GROUP **N** HERBICIDE

Glufosinate ammonium is the sole member of the phosphinic acid group of herbicides which acts on contact with limited phloem/xylem mobility. It disrupts glutamine synthetase, an enzyme involved in photosynthesis.

Chlorosis and wilting usually occur within 3 - 5 days followed by necrosis within 1 - 2 weeks. Symptoms occur faster in bright sunlight and high humidity.

### Use rates

The rate of Exonerate® in non crop situations is 1.0 – 6.0 L/ha. Determine the recommended rate of use by considering the weed species, weed stage of growth, weed density and climatic conditions.

### How to get the best results from Exonerate®

**Weed stage of growth:** Use the lower rate when weeds are young and succulent (grasses: pre-tillering; broadleaves: cotyledons to 4-leaf) or the population is very sparse.

A median rate should be used for medium sized plants (grasses: tillering; broadleaves: 4-leaf to advanced vegetative) and the high rate should be used when weeds are mature.

**Weed density:** Use the higher rates when the weed population is dense. Thorough coverage of weeds is essential for good control.

**Perennial weeds:** Apply when weeds are actively growing. Follow-up treatments will be necessary to control re-growth of perennial weeds in most cases.

**Climatic conditions:** Best results are achieved when applied under warm humid conditions. Control will be reduced and/or slower under cold conditions and/or overcast conditions.

Good results will be achieved under most other conditions, however poor results may occur under hot dry conditions (temperature above 33°C with a relative humidity below 50%).

Weeds that have been hardened or stunted in growth due to stressed conditions should be treated at the maximum rate.

# Exonerate®

## Features

- Broad Spectrum Weed Control
- Exonerate® is a soluble liquid formulation that is compatible with most commonly herbicides used in non-crop situations
- Exonerate® is an ideal product for path and garden edging or footpath and curbside edging
- Ideal Resistance Management tool.

## Benefits

- Controls over 80 grass and broadleaf weeds
- Exonerate® can be tank mixed to target both knockdown and residual weed control in the one pass allowing to manage harder to kill weeds and save time and application costs
- One product will cover a large range of turf species
- Reduces reliance on Glyphosate. Exonerate® can be used as a rotational tool.

## Compatibility

- Exonerate® is compatible with many residual and knockdown herbicides including Simazine (Simanex®), Oryzalin (Cameo®), Paraquat / Diquat (Spray and Sow®), Carfentrazone (Elevate®) and with Glyphosate (Wipe-Out® Bio and Wipe-Out® Accelerate)
- The addition of a wetting agent or other adjuvant is generally not required, however, benefit has been obtained using 25 mL/100 L of Wetspray® 1000 or similar adjuvant on hard-to-wet weeds when using water rates in excess of 500 L/ha. Ammonium sulphate may assist under dry conditions or on tough weed species. Oils such as canola oil are not recommended.

## Application Recommendations

### Ground Sprayers

Aim to apply a thorough and even coverage of spray to the target plant. Dense stands of weeds should be thoroughly wetted with spray. Incomplete coverage may result in poor control. Equipment should be such that adequate coverage, penetration and volume of spray liquid can be achieved.

### Boom or Directed Sprayer Equipment

Exonerate® should be applied at label rates in sufficient water to give thorough coverage of weeds. It has been found that 300 - 500 L/ha has given good results under most weed conditions. Special care must be taken when using sprayer/slasher combination units not to cause dust and turbulence, which can carry spray into non-target areas.

### Knapsack and Handgun Equipment

Exonerate® should be applied at label rates in adequate water to thoroughly wet the weeds being sprayed, i.e. 500 - 1000 L/ha. Dense stands will require up to 1000 L/ha of spray mixture, whereas less dense stands will require less water. High volume application using hollowcone nozzles for hand spraying is recommended.

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