

Roundup Pro Biactive 450 Information Sheet



Description

ROUNDUP PROBIACTIVE 450 is a new total weed control which delivers all the performance benefits that have made RoundUp ProBiactive the choice for professionals across the UK.

In addition, it also contains 25% more glyphosate by volume than its predecessor. This increase in glyphosate means that each 5l can of ROUNDUP PROBIACTIVE 450 will treat a much greater area, helping to reduce cost and storage space without losing any performance.

Professionals often choose this product to treat tough weeds such as Japanese Knotweed, Bracken, Ivy, Brambles, Common Ragwort and Giant Hogwort, to name but a few. It is recommended by the manufacturer for the control of annual and perennial grasses and broad leaved weeds in areas such as roadsides, paths, hard surfaces and along fences and walls. It is also suggested for cleaning up weedy ground prior to planting, for total weed control on industrial sites and even aquatic weed control.

ROUNDUP PROBIACTIVE is so special because it has a unique bioactive formulation which improves retention, uptake and translocation; this allows more glyphosate to get to the weed's growing points, which helps to achieve the highest levels of performance and superior long term control over difficult perennial weeds. The Biactivators also increase reliability over a wide range of applications and in difficult or rainy weather conditions; with excellent rainfastness being achieved within just 6 hours and the herbicide quickly degrading in the soil soon after application.

ROUNDUP PROBIACTIVE also advantageously has no hazard symbols making it safer for the operator and the environment. It is approved for use in areas open to the public, animals and even water. However, it is still important that you wear suitable protective clothing, gloves and safety accessories when applying this product.

How it Works

- For a herbicide to function it must first break through the waxy surface of the leaf and enter the plant cells.
- This is achieved by developing a formulation containing an adjuvant or surfactant which breaks down the waxy cuticle.
- Tallow Amine products can break down the waxy surface, however, these are too aggressive and some glyphosate becomes 'locked up' because the plant cells close down in response to the damage caused.

Areas of Use

- Can be used around drainage systems.
- Can be used right up to trees or hedge bottoms, provided care is taken to avoid spray drifting on to the leaves or soft stems of plants.
- Can be used at the base of young trees.
- Areas prior to planting shrubs, ornamentals, vegetables or other species, or seeding grass.
- Woodland management.
- Aquatic weeds.
- Difficult weeds e.g:
 - Japanese Knotweed
 - Bracken
 - Rhododendron.
 - Ivy
 - Bramble
 - Common Ragwort
 - Giant Hogwort

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Key Benefits

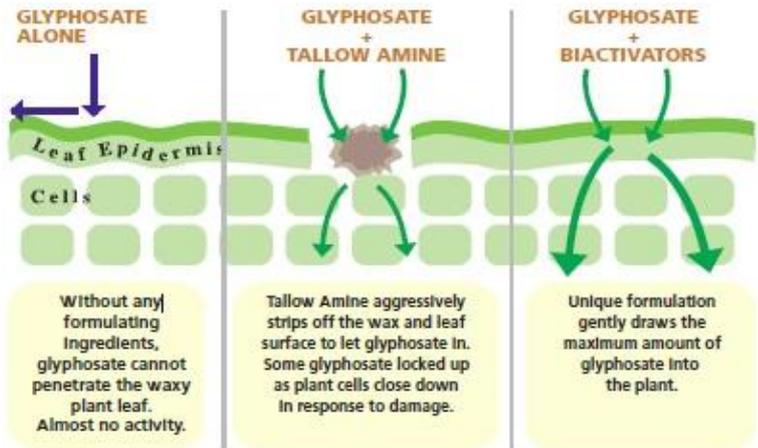
- Highest levels of performance and safety.
- Unique Biactive formulation gets more glyphosate into the plant.
- Hazard free label – safer for operator, public and pets.
- You can use Roundup ProBiactive 450 with confidence in areas open to the public and animals, or even near water.
- Superior long term control of difficult perennial weeds.
- Biodegrades in soil and water.
- Excellent rainfastness.
- Makes the most of those precious weather windows.
- Superior long term control of difficult perennial weeds.

Product Data

Storage: Unused product should be stored only in the original container.

Shelf Life: It will keep for several years in a suitable chemical store.

- RoundUp Pro Biactive is consequently the superior product as its unique formulation cleverly draws in the correct dosage of glyphosate into the plant.



- RoundUp ProBiactive is not hazardous because Glyphosate, the active ingredient in Roundup Pro Biactive, controls weeds by blocking the plant's enzyme system. These enzymes, which are present in plants, do not occur in humans, animals, birds or fish. Hence, Roundup Pro Biactive is safe to everything except green plants.

Optimising Results from RoundUp ProBiactive

Always using the correct dose rates, timings and application methods according to the relevant sections in this guide to ensure the best results; however, there are a number of other factors which can affect the performance of RoundUp ProBiactive.

Stress: Target weeds can suffer stress from hot weather, freezing, die-back, water-logging or disease. Stress causes reduced metabolism and leads to reduction in transport to the growing points and inferior results.

Areas in close proximity to traffic can have particular problems in prolonged dry spells. Plants lay down thicker waxy cuticles to reduce moisture loss from drought, plus debris and dust builds up on the leaf surface, physically preventing efficient uptake.

Temperature: Moderate temperature favours efficacy (15-25°C), though low temperatures will still give good results but slowly. Hard or long term frosts (when the plants go floppy and the metabolism shuts down), or high temperatures causing scorch or stress will lead to poor uptake and poor performance.

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Health and Safety

- Try not to walk through the spray swath during application or through treated vegetation.
- No hazard rating.
- RoundUp ProBiactive 450 is practically non-harmful by skin absorption.
- It is also practically non-harmful by ingestion.
- There is no risk via inhalation under normal use situations.
- This product will not produce an allergic reaction.

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Relative Humidity, Dew, Fog, Rainfall: High humidity leads to good control provided run-off is minimal. So spray in the morning on dew or in fog as long as it dries out during the day. Avoid spraying in the evening as the risk of run-off and night rainfall is higher. Rainfall challenges performance most when the performance is restricted by other factors.

Light: Best results come from morning-lunchtime application because of the long light period before dark to move the herbicide throughout the plant. Anything which cuts out light will prevent the movement of the herbicide to the growing points and give poorer results.

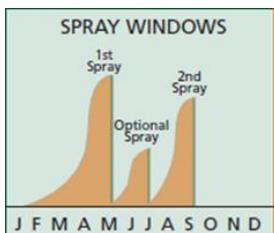
Application Rates and Timings

The table below shows broad application rates for RoundUp ProBiactive, however, for a more in-depth assessment of application and dilution rates please refer to the articles in the 'Related Articles Tab' on the RoundUp ProBiactive Product Page of the SkilledBuild website.

Type of Treatment	Dilution Rate	Solution Made	Coverage Rate
Annual Grasses	1:67 with water	340L Dilute	3.0L/Ha
Annual Broad Leaved Weeds	1:67 with water	340L Dilute	3.0L/Ha
Perennial Weeds	1:40 with water	205L Dilute	5.0L/Ha

The timetable needs to be flexible according to conditions rather than calendar. The first spray should not be done until weeds have emerged and are actively growing and this will vary from year to year according to the weather.

The graph below shows spray windows as late April to mid-May for Spring treatment, with a subsequent optional spray in Summer, and a further spray in the period August to September.



Before Treatment



Intermediate



After Treatment