



Barclay

CROP PROTECTION

Gallup®

Biograde® Amenity

Contains 360 g/l (30.7% w/w) glyphosate

A systemic herbicide, as a soluble concentrate, for the control by foliar uptake of most broad-leaved and grass weeds, especially common couch or scutch, on industrial sites, along paths and roadways, in amenity and forest areas and on or near water.

SAFETY PRECAUTIONS

OPERATOR PROTECTION

ENGINEERING CONTROL OF OPERATOR EXPOSURE MUST BE USED WHERE REASONABLY PRACTICABLE IN ADDITION TO THE FOLLOWING PERSONAL PROTECTIVE EQUIPMENT. WEAR SUITABLE PROTECTIVE GLOVES WHEN HANDLING THE CONCENTRATE AND CONTAMINATED SURFACES.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS WHEN USING HAND-HELD SPRAYERS, HAND-HELD ROTARY ATOMISERS, WEED-WIPING EQUIPMENT OR WHEN MAKING CUT STUMP TREATMENTS.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES, RUBBER BOOTS AND FACE PROTECTION (FACESHIELD) WHEN USING STEM INJECTION EQUIPMENT.

HOWEVER, ENGINEERING CONTROLS MAY REPLACE PERSONAL PROTECTIVE EQUIPMENT IF A COSHH ASSESSMENT SHOWS THEY PROVIDE AN EQUAL OR HIGHER STANDARD OF PROTECTION.

WASH CONCENTRATE FROM SKIN OR EYES IMMEDIATELY.

DO NOT BREATHE SPRAY.

WASH ALL PROTECTIVE CLOTHING THOROUGHLY AFTER USE, ESPECIALLY THE INSIDES OF GLOVES.

WASH HANDS AND EXPOSED SKIN BEFORE EATING, DRINKING OR SMOKING AND AFTER WORK.

ENVIRONMENTAL PROTECTION

DO NOT CONTAMINATE WATER WITH THE PRODUCT OR ITS CONTAINER* (DO NOT CLEAN APPLICATION EQUIPMENT NEAR SURFACE WATER/AVOID CONTAMINATION FROM FARMYARDS AND ROADS) *EXCEPT WHEN USED AS DIRECTED.

THE MAXIMUM CONCENTRATION OF GLYPHOSATE IN THE WATER MUST NOT EXCEED 0.2 PPM OR SUCH LOWER CONCENTRATION AS THE APPROPRIATE WATER REGULATORY BODY MAY REQUIRE.

TO AVOID RISKS TO MAN AND THE ENVIRONMENT COMPLY WITH THE INSTRUCTION FOR USE.

SAFETY DATA SHEET AVAILABLE FOR PROFESSIONAL USERS ON REQUEST.

THIS PRODUCT IS APPROVED UNDER THE PLANT PROTECTION PRODUCTS REGULATIONS (AS AMENDED).

STORAGE AND DISPOSAL

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, TIGHTLY CLOSED, IN A SAFE PLACE.

DO NOT RE-USE CONTAINER FOR ANY OTHER PURPOSE

RETURN EMPTY CONTAINER TO THE SUPPLIER

DO NOT RINSE OUT THE CONTAINER

OPEN THE CONTAINER ONLY AS DIRECTED

OPERATING INSTRUCTIONS FOR RETURNABLE CONTAINERS

A closed transfer system that meets or exceeds British Standard BS 6356 Part 9 must be used for transferring and measuring Barclay Gallup Biograde Amenity. Please contact the equipment manufacturer or your advisor for further advice.

Remove the tamper evident cap from the valveunit that is fitted to the top of the IBC. Follow the instructions in the equipment manual, attach the coupler of the transfer system to the IBC and operate to transfer the required amount of Barclay Gallup Biograde Amenity. After use, remove the coupling and rinse in accordance with the instructions in the equipment manual, ensuring that the transfer system is clean and empty before re-use. The container should be sealed and externally cleaned only and left for collection.

MAPP No. 12716

PROTECT FROM FROST

IMPORTANT INFORMATION

FOR USE ONLY AS AN INDUSTRIAL/FORESTRY/AQUATIC HERBICIDE

See Statutory Area on attached leaflet for the following:

Crop or situation, Maximum individual dose of product, Maximum number of treatments, Latest time of application, Other Specific Restrictions

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

Manufacturer: Barclay Chemicals Manufacturing Ltd.,

Damastown Way, Damastown Industrial Park,

Mulhuddart, Dublin 15, Ireland.

Tel: 00 353 (0) 1 8112900 Fax: 00 353 (0) 1 8224678

E-mail: info@barclay.ie Website: www.barclay.ie

Approval Holder: Barclay Chemicals R&D Ltd

Contact details as above.

Copyright © Barclay Chemicals (R&D) Limited, 2008.

Gallup and Biograde are registered trademarks of Barclay Chemicals (R&D) Ltd

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

IMPORTANT INFORMATION

FOR USE ONLY AS AN INDUSTRIAL/FORESTRY/AQUATIC HERBICIDE

Crop or situation	Maximum individual dose of product	Maximum number of treatments	Latest time of application
Forest	10 l/ha	see Other specific restrictions	-
Natural surfaces not intended to bear vegetation, permeable surfaces overlying soil, hard surfaces.	6 l/ha	-	-
Enclosed water, land immediately adjacent to aquatic areas, open waters.	6 l/ha	see Other specific restrictions	-
Amenity vegetation	5 l/ha	-	-

Other specific restrictions

- Users must consult the appropriate water regulatory body (Environment Agency/Scottish Environment Protection Agency) before using the product near water and must obtain their agreement before using this product to control aquatic weeds.
- When applying through rotary atomisers, the spray droplet spectra produced must be of minimum Volume Median Diameter (VMD) of 200 microns.
- For stump application, the maximum concentration must not exceed that produced by 200ml product made up to 1 litre with water (20 % v/v).
- Weed-wipers may be used in any crop where the wiper does not touch the growing crop. The maximum concentrations used must not exceed the following (a) Weedwiper Mini – 1:2 dilution with water (b) Other wipers – 1:1 dilution with water.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

GENERAL INFORMATION

Barclay Gallup Biograde Amenity is a foliar acting herbicide that controls annual and perennial grasses and most broad-leaved weeds when used as directed. It is translocated from treated vegetative growth to underground roots, rhizomes or stolons. Leaf symptoms, being a reddening then yellowing of the foliage, are first seen on grass weeds but take longer to appear on broad-leaved weeds.

It is *particularly important* that the weeds have sufficient leaf growth and are actively growing when treated.

Perennial grass weeds must have produced fresh leaves, which are green and vigorous. Common couch or scutch is most susceptible to Barclay Gallup Biograde Amenity when it is tillering and when new rhizomes have begun to grow. This is usually when the plants have about 5-6 leaves, each with approximately 12-15cm of new growth.

The majority of perennial broad-leaved weeds are most susceptible if treated when they are actively growing and are at or near flowering stage.

Annual weeds should be actively growing with grasses having at least 5cm of leaf and broad-leaved weeds at least two expanded true leaves when sprayed.

Couch or scutch grasses and other grass and broad-leaved weeds are less susceptible to Barclay Gallup Biograde Amenity when growth is restricted by drought, waterlogging, frost, very high temperatures or natural dieback. Efficacy will be reduced if such conditions occur at or immediately after spraying.

DO NOT apply lime, fertiliser, farmyard manure, pesticides or similar materials within 7 days of Barclay Gallup Biograde Amenity.

Note: Barclay Gallup Biograde Amenity does not give acceptable control of horsetail (*Equisetum arvense*).

WEATHER CONDITIONS

A period of at least 6 hours and preferably 24 hours free of rain must follow spraying. Do not spray onto weeds suffering from drought stress as reduced control may occur. Do not spray in windy conditions as drift onto other crops or vegetation can cause severe injury or destruction. Do not spray during frosty weather that prevents active growth and can induce weed senescence.

FORESTRY

Use

Before planting:

Most broad-leaved and grass weeds

Dose Rate

5 l/ha

Hydraulic sprayers: apply in 80-250 l/ha water.

Rotary atomisers: apply in total spray volume of 40 l/ha

Remarks

If the ground has been disturbed by forestry operations, allow the weeds to recover. Apply when weeds are showing green leaf and are actively growing. Wait at least 7 days before any cultivation or before planting trees.

After planting (as directed spray) in competitive forestry situations: for cleaning-up around trees; conifer release;

Use the 'Weedwiper Mini' or apply by knapsack sprayer. For knapsack application apply at the appropriate dose for the species to be treated as detailed below.

Use the 'Weedwiper Mini' (except rhododendron) or apply by knapsack sprayer around fully guarded trees. It is ESSENTIAL to use a TREE GUARD for all applications made in the growing season. Treat bracken after frond tips are unfurled but pre-senescence.

Most annual and perennial grasses and broad-leaved weeds

4 l/ha in 250 l/ha water

Treat heather late-August to end-September. Treat all other woody weeds June to August before leaf senescence, but after new growth of crop has hardened.

Broad-leaved woody weeds, bracken, beech, brush, bramble, sycamore, oak, hazel, willow, ash

3 l/ha in 250 l/ha water

Important

The time of hardening of leader growth in any year varies with species, location and weather amongst other factors: hardening might occur from end-July up to October or even later.

Heather (peat soils).

4 l/ha in 250 l/ha water

Always direct the spray away from leaders to avoid damage to Lammas growth.

Heather (mineral soils).

6 l/ha in 250 l/ha water

Rhododendron

By knapsack sprayer:
10 l/ha or 8 l/ha in 250 l/ha water plus authorised adjuvant ADJ 0161 (PCS 91597) at 2% of final spray volume.
The weedwiper Mini is not recommended for the control of rhododendron.

Cut stump application to prevent regrowth of thinnings.

Deciduous species:

1 volume product: 9 volumes of water (10% solution).

Apply immediately after felling or simultaneously whilst sawing, with a special attachment to the saw, during November to March. Do not apply during the period of rising sap flow usually occurring during March to May.

Coniferous species:

1 volume product: 4 volumes of water (20% solution).

Thinning by stem injection

All species:

2ml of undiluted product per cut.
For trees more than 10cm diameter make 2 or 3 cuts according to tree size and inject 2ml of product into each.

Cut into the live cambial tissue with a downward axe stroke. Cuts must be not more than 1m from the ground. Inject the Barclay Gallup Biograde Amenity into each cut. Treat at any time of the year except during the period of rising sap flow usually occurring during March to May.

Note: for ease of identification of treated trees a suitable commercially available water soluble violet dye may be added to the prepared solution at 1ml dye per 10 litres of prepared spray solution.

NATURAL SURFACES NOT INTENDED TO BEAR VEGETATION, PERMEABLE SURFACES OVERLYING SOIL, HARD SURFACES: General use around the farm and on amenity and industrial areas

<u>Area of use</u>	<u>Dose Rate</u>	<u>Remarks</u>
Around buildings	General use: 4 l/ha	Apply at any time of the year when weeds are showing green leaf and are actively growing.
On industrial sites		Weeds germinating after application will not be controlled. Avoid drift onto crops, lawns, amenity plants or any desirable species.
Firebreaks	Perennial broad-leaved weeds present: 6 l/ha	
Pavements		
Verges along public paths and roadways	<i>Hydraulic sprayers:</i> apply in 80-250 l/ha water.	DO NOT USE UNDER GLASS OR POLYTHENE.
Around traffic signs and advertising hoardings	<i>Knapsack sprayers:</i> apply in 100-250 l/ha water.	See KNAPSACK RATE RECKONER tables.
Site preparation for landscaping projects; golf courses etc.	<i>Rotary atomisers:</i> apply in total spray volume of 40 l/ha.	DO NOT SPRAY HEDGE BOTTOMS.

Important: If poisonous weeds, such as ragwort, had been present before treatment, then grazing animals, such as horses, should be kept clear of treated areas until such time that poisonous weeds have been removed.

AQUATIC WEED CONTROL

Situations: For weed control in or near watercourses and lakes in the presence or absence of fish.

Note: provided that use is as directed on this label, water may be used for irrigation or livestock without interruption.

Important: Consult the appropriate regional water regulatory body (Environment Agency/Scottish Environment Protection Agency) responsible for the water catchment area before applying any treatment in or near water - see Other Specific Restrictions.

Consult and observe the code of practice entitled 'Guidelines for the use of herbicides on weeds in or near watercourses and lakes. DEFRA booklet PB2289.

<u>Weed species</u>	<u>Dose Rate</u>	<u>Remarks</u>
Waterside weeds:	Treat as for NATURAL SURFACES NOT INTENDED TO BEAR VEGETATION.	As for NATURAL SURFACES NOT INTENDED TO BEAR VEGETATION.
Emergent weeds:	5 l/ha in 250 l/ha water.	For most species treat actively growing plants during August-September.
Bent, creeping		
Bulrush		Best results against water-cress are obtained from spraying in June. Treat bulrush in late July.
Canary-grass, reed		
Reed, common		
Sedge spp.		
Soft-rush		Treat actively growing water-lily during July-August.
Sweet-grass, reed		
Water-cress		
Whorl-grass		
Floating weeds:	6 l/ha in 100-200 l/ha water.	Apply with a suitably mounted hydraulic sprayer moving slowly against the current. Re-treatment of disturbed weeds along the path of the boat/carrier may be necessary 2-3 weeks later.
Water-lily, white		
Water-lily, yellow		

Maximum permitted concentration of glyphosate in the treated water = 0.2ppm

AMENITY VEGETATION

Use

Vegetation management - ornamental areas

Dose rate

Annual weeds 1.5 l/ha,

Perennial grass weeds 4.0 l/ha,

Perennial broad-leaved weeds 5.0 l/ha

Hydraulic sprayers 80-250 l/ha
(rotary atomisers may be used at a water volume of 40 l/ha) or hand-held equipment.

Remarks

Do not use under polyethylene or glass

WICK/WIPER APPLICATORS (e.g. WEEDWIPER MINI)

Certain weeds, particularly those with an erect growth habit and having a spatial separation from desirable species, can be effectively controlled by wiping a concentrated solution of Barclay Gallup Biograde Amenity onto the leaves or stems. Weeds must be actively growing at application. Do not apply when rain is expected within 6 hours as, apart from unsatisfactory weed control, herbicide might be transferred to desirable species by rain splash or foliar contact.

Barclay Gallup Biograde Amenity dilution

Maximum Concentrations must not exceed the following:

Weedwiper Mini

1 volume Barclay Gallup Biograde Amenity: 2 volume of water

Other wipers

1 volume Barclay Gallup Biograde Amenity: 1 volume of water for normal conditions;
under warm, dry conditions use 1:2 dilution with water

Weedwipers may be used in any crop where the wiper does not touch the growing crop.

Note: for ease of identification of treated weeds, a suitable commercially available water soluble dye may be added to the prepared solution at 1ml dye per 10 litres of prepared spray solution.

MIXING

Tractor mounted sprayers

Pour the recommended quantity of Barclay Gallup Biograde Amenity into the spray tank already half-filled with clean water and under agitation. Top up the tank with more clean water to the required level, whilst maintaining agitation. Spray out on the day of mixing.

Knapsack sprayers

Add the recommended quantity of Barclay Gallup Biograde Amenity to the knapsack spray tank approximately one-third filled with clean water. Agitate thoroughly with a clean rod or by shaking after replacing the lid until thoroughly mixed. Top up the tank with more clean water to the required level and agitate thoroughly before use. Spray out on the day of mixing.

DO NOT MIX, APPLY OR STORE BARCLAY GALLUP BIOGRADE AMENITY IN GALVANISED OR UNLINED MILD STEEL CONTAINERS OR TANKS. KEEP TANKS WELL VENTED AND CLEAR OF ALL SOURCES OF IGNITION.

APPLICATION & SPRAY QUALITY

Conventional hydraulic sprayers

Knapsack sprayers

Prepared spray solution should be applied as a MEDIUM or COARSE quality spray (BCPC definition) at nozzle pressures not exceeding 2.5 bar (35 psi). Barclay Gallup Biograde Amenity is a systemic weedkiller and is active at low doses. **Take extreme care to avoid spray drift. DO NOT SPRAY in windy weather or near to desirable species or amenity plants as drift onto other crops or vegetation can cause severe plant injury or destruction.**

SOILS

Barclay Gallup Biograde Amenity may be used to control weeds on all mineral or organic soils or surfaces, including ash and gravel. Only weeds showing green leaf at the time of application can be killed. There is no residual activity with Barclay Gallup Biograde Amenity.

COMPATIBILITY

Barclay Gallup Biograde Amenity is compatible with authorised adjuvant Mixture B (ADJ 0648) when used for rhododendron control. DO NOT mix with any herbicide, insecticide or fungicide.

FUTURE PLANTING

Barclay Gallup Biograde Amenity has no long-lasting herbicidal activity in soils after application. Agricultural and horticultural quality soils may be planted up with trees after not less than 7 days after application, unless directed otherwise. Other amenity plants may be planted after the treated vegetation has died back or after cultivation. Under normal weather conditions, cultivations may be conducted 7 days after treatment. Under poor growing conditions wait for the characteristic red/yellow leaf symptoms to appear before cultivating.

WEED RESISTANCE STRATEGY

There is a low risk of weeds developing resistance to Barclay Gallup Biograde Amenity. Growers are encouraged to implement a weed resistance strategy based on good agricultural practices and good plant protection practices. Good practice is achieved and enhanced by:

- Following these label recommendations.
- Adopting complementary weed control measures.
- Minimising the spread of weeds and their seeds.
- Implementing good spraying practices to achieve maximum weed control.
- Using the correct nozzles to maximise weed coverage.
- Applying only under appropriate weather conditions.
- Monitoring performance and reporting unexpected results to Barclay Chemicals Ltd.

Strains of some annual weeds, e.g. black-grass, wild-oat and Italian rye-grass, have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of agricultural control measures. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop advisor or product manufacturer.

CARE OF EQUIPMENT

Wash equipment thoroughly after use with water and cleaning agent to remove traces of herbicide. Traces of herbicide left in the equipment may seriously damage or destroy crops sprayed with the same equipment at a later date.

KNAPSACK RATE RECKONER

METRIC - Medium Volume Application

BARCLAY GALLUP BIOGRADE AMENITY RECOMMENDATION (litres of product in l/ha of water)

3L per hectare in 250L per hectare
 4L per hectare in 250L per hectare
 5L per hectare in 250L per hectare
 6L per hectare in 250L per hectare

Amount BARCLAY GALLUP BIOGRADE AMENITY per 10 litres to treat 400m²

120 ml
 160 ml
 200 ml
 240 ml

METRIC - Low Volume Application

BARCLAY GALLUP BIOGRADE AMENITY RECOMMENDATION (litres of product in l/ha of water)

3L per hectare in 100L per hectare
 4L per hectare in 100L per hectare
 5L per hectare in 100L per hectare
 6L per hectare in 100L per hectare

Amount BARCLAY GALLUP BIOGRADE AMENITY per 10 litres to treat 1000m²

300 ml
 400 ml
 500 ml
 600 ml