

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Trade Name:** Barclay Gallup Biograde Amenity  
**Chemical Name:** N-(phosphonomethyl) glycine (IUPAC, CA)  
**Synonyms:** Glyphosate  
**Group Name:** Isopropylamine.  
**Formula:** C<sub>3</sub>H<sub>8</sub> NO<sub>3</sub>P [ RMM = 169.08 ]  
**Approved Use:** Agricultural Herbicide.  
**Supplier:** Barclay Chemicals Manufacturing Ltd.,  
 Damastown Way  
 Damastown Industrial Park  
 Mulhuddart  
 Dublin 15  
 Ireland  
**Telephone No:** 00 353 1 811 2900  
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**Issued By:** Barclay Chemicals Ltd.

**EMERGENCY TELEPHONE NUMBER: 00 353 1 811 2900**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name	
1.	Glyphosate isopropylamine.	
2.	Surfactant	
3.	Water	

  

No.	CAS No.	EC No.	R Phrases	Concentration	Classification
1.	38641-94-0	254-056-8	R51/53	41.5 % w/w	N
2.	-	-	R36	Classified	Xi
3.	-	-	-	Classified	IK

**Legend:** Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, IK = No Classification Required, E = Explosive, O = Oxidising, Fx = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dang. To the Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic, R = Causes birth defects, H = skin absorption

### 3. HAZARDS IDENTIFICATION

**Human:** Non Hazardous.  
**Environment:** Non Hazardous.

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#### 4. FIRST-AID MEASURES

<b>General:</b>	Remove patient to fresh air. Remove all heavily contaminated clothing. Always seek medical advice in cases of serious personal contamination.
<b>Inhalation:</b>	Move to fresh air. Seek medical advice if circumstances warrant.
<b>Skin Contact:</b>	Remove contaminated clothing immediately. Wash underlying skin with soap and plenty of water. If skin irritation occurs, consult a doctor.
<b>Eye Contact:</b>	Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if any irritation occurs.
<b>Ingestion:</b>	Rinse mouth. Seek medical attention immediately and show product label or this data sheet.
<b>Medical Information:</b>	For specialist advice doctors should contact the nearest <b>Poisons Information Centre</b> .

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#### 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Dry inert powder, foam, carbon dioxide or water-spray.
<b>Unsuitable Extinguishing Media:</b>	Do not use a water jet.
<b>Special Exposure Hazards:</b>	Keep containers cool by spraying with water. Contain fire-fighting water, bunding if necessary with sand or earth. Product is not ordinarily combustible. Toxic fumes may be evolved on heating.
<b>Protective Equipment:</b>	In case of fire wear full protective clothing, goggles and respirator.

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#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Wear as appropriate, chemical resistant rubber gloves, coated overall, PVC or rubber wellingtons and goggles.
<b>Environmental Precautions:</b>	Contain spillage as the situation allows. Particular care should be taken to prevent contamination of water (ditches, drains, ponds etc.).
<b>Methods for Cleaning Up:</b>	Absorb with sand or earth. Collect contaminated material and place in covered, labelled containers (not galvanised or unlined steel) for disposal. Advise local authority if spillage enters drains or Environmental Protection Agency if spillage enters surface or ground waters.

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## 7. HANDLING AND STORAGE

<b>Handling:</b>	Wear suitable protective clothing, gloves and or eye/face protection when handling the concentrate. Do not eat drink or smoke. Keep tanks well vented and clear of all sources of ignition. Wash out container thoroughly, empty washings into spray tank and dispose of safely.
<b>Storage:</b>	Store in original container, tightly closed in a designated chemical store. Keep in a cool, dry place. Keep away from food and animal foodstuffs. Keep out of reach of children. Keep container tightly closed. Do not mix or store in galvanised or unlined mild steel containers or tanks. Protect from frost.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Precautions:</b>	Wear suitable protective gloves when handling the concentrate. Wear suitable protective clothing (coveralls), suitable protective gloves and rubber boots when using low volume nozzles in a knapsack sprayer, hand-held rotary atomiser CDA sprayers, hand held weedwiping 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. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Wash concentrate from skin or eyes immediately. Wash hands and exposed skin before eating, drinking or smoking and after work. Wash all protective clothing thoroughly after use, especially the insides of gloves. Do not breathe spray Harmful to fish or other aquatic life. Do not contaminate surface waters or ditches with chemical or used container. Keep in original container, tightly closed, in a safe place. Wash out container thoroughly, empty washings into spray tank, and dispose of safely.
<b>Protective Clothing:</b>	<i>Respiratory Protection:</i> Suitable approved respirator may be required, when dealing with the concentrate or spray. <i>Eye Protection:</i> Suitable face shield should be used when dealing with the concentrate or spray. <i>Hand Protection:</i> PVC or other plastic material gloves should be used when dealing with the concentrate or spray. <i>Skin Protection:</i> Lightweight protective clothing to protect from contamination when dealing with the concentrate or spray.
<b>Occupational Exposure Limits:</b>	None assigned.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear, non-viscous liquid.
<b>Odour:</b>	Pungent chemical odour
<b>pH:</b>	4.98
<b>Boiling Point/Boiling Range:</b>	No information.
<b>Melting Point/Melting Range:</b>	Not applicable.
<b>Flash Point:</b>	No information.
<b>Flammability:</b>	Non flammable.
<b>Autoflammability:</b>	Does not ignite below 400 °C.
<b>Explosive Properties:</b>	None.
<b>Oxidizing Properties:</b>	None.
<b>Vapour Pressure:</b>	No information.
<b>Relative Density:</b>	1.171 g/cm <sup>3</sup> @ 24.7 °C
<b>Solubility (water and fat):</b>	Miscible in all proportions in water.

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## 10. STABILITY AND REACTIVITY

<b>Conditions to Avoid:</b>	Accelerated storage tests indicate a shelf life of approx. 2 years. Keep at temperatures not exceeding 40°C and above minus 15°C.
<b>Materials to Avoid:</b>	Galvanised or unlined mild steel containers; store as supplied in HDPE containers
<b>Hazardous Decomposition Products:</b>	There are no hazardous decomposition products classified.

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	Oral Toxicity: LD <sub>50</sub> Rat: > 2000 mg/kg. Dermal Toxicity: LD <sub>50</sub> Rat: > 4000 mg/kg.
<b>Irritation:</b>	Non irritating to eyes. Non irritating to skin.
<b>Sensitization:</b>	Non sensitizer.

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## 12. ECOLOGICAL INFORMATION

<b>Mobility:</b>	Glyphosate is very strongly bound onto soil, it is not leached from soils.
<b>Degradability:</b>	Glyphosate is degraded in the soil by soil organisms.
<b>Accumulation:</b>	The half life of glyphosate in loamy soils under summer conditions is about 20-30 days.

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### 13. DISPOSAL CONSIDERATIONS

<b>Product and Waste:</b>	Bury in approved land fill or dispose of in an authorised disposal contractor
<b>Containers:</b>	Crush or bury or burn in a proper incinerator. Dispose of via an authorised disposal contractor.

### 14. TRANSPORT INFORMATION

<b>Special Transport Precautions:</b>	None.
<b>Road/Rail Classification:</b>	Not restricted.
<b>Classification:</b>	Not restricted.
<b>Air Classification:</b>	Not restricted.

### 15. REGULATORY INFORMATION

Contains glyphosate 360g/l.

#### R- PHRASES

None

#### S- PHRASES

- S2 - Keep out of reach of children.
- S13 - Keep away from food, drink and animal feeding stuffs.
- S20/21 - When using, do not eat, drink or smoke.
- S36 - Wear suitable protective clothing.
- S37/39 - Wear suitable protective gloves and face protection (faceshield) when handling or applying the concentrate.
- S49 - Keep in original container, tightly closed in a safe place.

### 16. OTHER INFORMATION

Version: 1	Prepared: 02/05/00
Version: 2	Prepared: 28/06/02
Version: 3	Prepared: 16/12/03 Update to comply with 2001/58/EC, change telephone no
Version: 4	Prepared: 28/07/04 Supplier detail correction
Version: 5	Prepared: 02/08/06 Hazards Identification and raw material concentration corrected

#### DISCLAIMER

*The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness. This Material Safety Data Sheet was prepared according to Directive 2001/58/EC.*

# Gallup Biograde Amenity\*

Contains 360g/l (30.7% w/w) glyphosate. MAPP 12716

A foliar-applied translocated glyphosate herbicide for the control of emerged weeds in industrial situations, forestry and aquatic areas



## How does Gallup Biograde Amenity work?

The active ingredient of Gallup Biograde Amenity is glyphosate which acts by blocking the plant's enzymatic system. As this system is only found in plants and not found in humans, animals, birds or fish, the herbicidal activity is very specific and effective. Following treatment leaf symptoms on treated plants are a reddening then yellowing of the foliage.

The product is very flexible as it can be used at anytime of year, especially when growth is active and the leaves are well developed to take up the herbicide. The formulation ensures the herbicide is readily absorbed through the leaf cuticle and is able to circulate throughout the plant and right down to the roots. As a result not just the foliage but the whole of the plant is killed.

Gallup Biograde Amenity is adsorbed easily onto the soil particles so does not leach and is also broken down by the soil bacteria into harmless natural substances.

## Where to use Gallup Biograde Amenity

The product has great flexibility of use and can be applied in a variety of situations including:

- \*Around buildings
- \*On industrial sites
- \*Along fences and walls
- \*On paths, pavements and roadways
- \*Around tree bases
- \*Site preparation for landscaping
- \*For control of emergent and floating aquatic weeds.

## How to apply Gallup Biograde Amenity

Do not spray during frosty weather or in windy conditions.

### APPLICATION RATES - FORESTRY

Target Weed	Gallup Biograde Amenity	Water volume	Area
<i>Before planting:</i> Most broad-leaved weeds and grass weeds	5 litres	80-250 litres	1 ha
<i>After planting:</i> Most annual and perennial grasses and broad-leaved weeds	4 litres	80-250 litres	1 ha
<i>Broad-leaved woody weeds:</i> Ash, beech, bracken, bramble, brush, hazel, oak, sycamore, willow	3 litres	80-250 litres	1 ha
Heather (peat soils)	4 litres	80-250 litres	1 ha
Heather (mineral soils)	6 litres	80-250 litres	1 ha
Rhododendron	10 litres	80-250 litres	1 ha
<i>Cut stump:</i> Deciduous species: 1 volume product: 9 volumes water (10% solution) Coniferous species: 1 volume product: 9 volumes water (20% solution)			
<i>Stem injection:</i> All species	2ml undiluted product per cut		

- Can be used any time of year when weeds are green and actively growing
- Non-hazardous COSHH classification
- Bio-degraded by micro-organisms in the soil
- Superior performance
- Can be used for aquatic weed control



### APPLICATION RATES - INDUSTRIAL SITUATIONS

Target weeds	Gallup Biograde Amenity	Water volume	Area
General use	4 litres	80-250 litres	1 ha
Perennial broad-leaved weeds	6 litres	80-250 litres	1 ha

A Weed-Wiper applicator can be used to apply the product directly to weeds, at a ratio of 1 volume Gallup Biograde Amenity : 2 volumes of water.

### KNAPSACK RATE RECKONER

Volume application	Product recommendation	Gallup Biograde Amenity in full 20 litre knapsack	Area
Medium	5 litres in 250l/ha	400ml	800m <sup>2</sup>
Low	5 litres in 100l/ha	1,000ml	2,000m <sup>2</sup>

### AQUATIC WEED CONTROL

Gallup Biograde Amenity can be used for the control of waterside and emergent weeds including reeds, rushes, sedges, grasses and watercress, and against the floating weeds white water-lily and yellow water-lily. As with any aquatic herbicide, prior approval should be sought from appropriate authorities.

### APPLICATION RATES

Target weeds	Gallup Biograde Amenity	Water volume	Area
Waterside and emergent weeds	5 litres	250 litres	1 ha
Floating weeds	6 litres	100-200 litres	1 ha

For most waterside and emergent weeds treat actively growing plants during August-September. Treat bulrush in late July. For best results against water-cress apply in June. For floating weeds treat actively growing plants during July-August.

Read product label before use.

### PACK DETAILS OF Gallup Biograde Amenity

Pack size: 5 litres

Pack coverage:

Non-cropped land: 8,333-12,500m<sup>2</sup>

Forestry: 5,000-10,000m<sup>2</sup>

Aquatic: 8,333-10,000m<sup>2</sup>

Gallup Biograde Amenity is a registered trademark of Barclay Chemicals Manufacturing Ltd. ALWAYS READ THE LABEL. USE PESTICIDES SAFELY.