

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Trade Name:** Barclay Gallup Hi-Aktiv  
**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  
**Fax No:** 00 353 1 822 4678  
**Issued By:** Barclay Chemicals Ltd.

**EMERGENCY TELEPHONE NUMBER: 00-353-1-8112900 (9am to 5pm)**  
**00-353-863857769 (5pm to 9am)**

### 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	54.2 % w/w	N
2.	-	-	-	Classified	IK
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.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Wear suitable protective gloves when handling the concentrate. Do not eat drink or smoke. Wash out container thoroughly, empty washings into spray tank and dispose of safely.
<b>Storage:</b>	Store in original container, tightly closed in a safe place. Protect from frost.

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## 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 hand-held sprayers, hand-held rotary atomiser, 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. Wash concentrate from skin or eyes immediately. Wash hands and exposed skin before meals and after work. Wash all protective clothing thoroughly after use, especially the insides of gloves. 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>Eye Protection:</i> Suitable face shield should be used when using stem injection equipment. <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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear, non-viscous liquid.
<b>Odour:</b>	Pungent chemical odour
<b>pH:</b>	4.72
<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>	1.203 g/cm <sup>3</sup> @ 20 °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.

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## 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.

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## 15. REGULATORY INFORMATION

Contains glyphosate 490g/l.

### R- PHRASES

None

### S- PHRASES

- S2** - Keep out of the reach of children
  - S36** - Wear suitable protective clothing.
  - S37/39** - Wear appropriate gloves and eye/face protection.
  - S46** - If swallowed, seek medical advice immediately and show the container or label if possible
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## 16. OTHER INFORMATION

Version: 1	Prepared: 01/02/01
Version: 2	Prepared: 09/08/01
Version: 3	Prepared: 28/06/02
Version: 4	Prepared: 16/12/03 Update to comply with 2001/58/EC, change telephone no
Version: 5	Prepared: 28/07/04 Supplier detail correction.
Version: 6	Prepared: 22/05/06 Update to Section 8.
Version: 7	Prepared: 02/08/06 Hazards Identification and raw material concentration correction.
Version: 8	Prepared: 11/12/06 Emergency phone number updated
Version: 9	Prepared: 03/05/07 Safety and risk phrases updated

### 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.*