

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Barclay Gallup Amenity
Chemical Name: N-(phosphonomethyl) glycine (IUPAC, CA)
Synonyms: Glyphosate
Group Name: Isopropylamine
Formula: C₃H₈ NO₅P [RMM = 169.08]
Approved Use: Agricultural/Horticultural 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	R41, R51/53	41% 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

Humans: Low hazard by ingestion, may cause gastro-intestinal tract irritation.
 Moderately irritating to eyes and skin.

Environmental: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

General:	Remove patient to fresh air. Remove all heavily contaminated clothing. Always seek medical advice in cases of serious personal contamination
Inhalation:	Move to fresh air. Seek medical advice if circumstances warrant
Skin Contact:	Remove contaminated clothing immediately. Wash underlying skin with soap and plenty of water. If skin irritation persists, consult a doctor.
Eye Contact:	Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if any irritation occurs.
Ingestion:	Rinse mouth. Seek medical attention immediately and show product label or this data sheet.
Medical Information:	No specific antidote known. Treat symptomatically. This does not inhibit cholinesterase and treatment with atropine or oximes is not indicated. For further and specialist information doctors should contact the nearest Poisons Information Centre .

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Dry inert powder, foam, carbon dioxide or water-spray.
Unsuitable Extinguishing Media:	Do not use a water jet.
Special Exposure Hazards:	Keep containers cool by spraying with water. Contain fire-fighting water, bunding if necessary with sand or earth. Product is not ordinarily combustible. FLASHPOINT: 68°C. Toxic fumes may be evolved on heating.
Protective Equipment:	In case of fire wear full protective clothing, goggles and respirator.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear as appropriate, chemical resistant rubber gloves, coated overall, PVC or rubber wellingtons and goggles.
Environmental Precautions:	Contain spillage as the situation allows. Particular care should be taken to prevent contamination of water (ditches, drains, ponds etc.).
Methods for Cleaning Up:	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

Handling:	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.
Storage:	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

Precautions:	Wear suitable protective gloves and face protection (face shields) when handling concentrate. Wash all protective clothing thoroughly after use, especially the insides of gloves. When using do not eat, drink or smoke. Wash splashes from skin or eyes immediately. Do not breathe spray. Wash hands and exposed skin before meals and after work. Keep out of reach of children.
Protective Clothing:	<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.
Occupational Exposure Limits:	None assigned

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid, Amber/Brown.
Odour:	Very slight odour.
pH:	5.3 (1% sol in water).
Boiling Point/Boiling Range:	Not Classified.

Melting Point/Melting Range:	No information
Flash Point:	68 °C.
Flammability:	No information
Autoflammability:	No information
Explosive Properties:	None
Oxidizing Properties:	None
Vapour Pressure:	No information
Relative Density:	1.167 g/cm ³
Solubility (water and fat):	Miscible in all proportions in water.

10. STABILITY AND REACTIVITY

Conditions to Avoid:	The product is stable in air and light for at least 14 days at 20 °C. A 1% solution in water was stable for 14 days without degradation. Accelerated storage tests indicate a shelf life of approx. 2 years. Keep at temperatures not exceeding 40°C and above minus 15°C.
Materials to Avoid:	Galvanised or unlined mild steel containers; store as supplied in HDPE containers
Hazardous Decomposition Products:	There are no hazardous decomposition products classified.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Oral Toxicity: LD ₅₀ Rat: > 2000 mg/kg Dermal Toxicity: LD ₅₀ Rat: > 2000 mg/kg
Irritation:	Does not inhibit cholinesterase or exhibit neurotoxic effects Moderately irritating to the skin. Moderately irritating to the eyes.
Sensitization:	No sensitising potential to guinea pigs.

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

Product and Waste:	Bury in approved land fill or dispose of in an authorised disposal contractor
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Containers:

Crush or bury or burn in a proper incinerator. Dispose of via an authorised disposal contractor.

14. TRANSPORT INFORMATION

Special Transport Precautions:	None.
Road/Rail Classification:	UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S. (Contains Glyphosate, ethoxylated tallowamine) UN 3082, PGIII, Class 9
IMDG Classification:	UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S. (Contains Glyphosate, ethoxylated tallowamine) UN 3082, PGIII, Class 9
Air Classification:	UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S. (Contains Glyphosate, ethoxylated tallowamine) UN 3082, PGIII, Class 9

15. REGULATORY INFORMATION

Contains glyphosate 360g/l.

Xi – Irritant

N - Dangerous to the environment.

R- PHRASES

R36/38 - Irritating to eyes and skin.

R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Revision: 0 Date prepared: 05.01.95

Revision: 1 Date prepared: 27.11.97

Revision: 2 Date prepared: 20.08.98

Revision: 3 Date prepared: 28.06.02

Revision: 4 Date prepared: 16.12.03 Update to comply with 2001/58/EC, change telephone no

Revision: 5 Date prepared: 28.07.04 Supplier detail correction

Revision: 6 Date prepared: 11.08.04 Update to transport classification.

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.