SAFETY DATA SHEET
Barclay Gallup 360 SL

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name Barclay Gallup 360 SL
REACH Registration notes IN CONFORMITY WITH (REACH ) Annex II of EC Regulation no.1907/2006.

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Agricultural/Horticultural Herbicide

1.3. Details of the supplier of the safety data sheet
Manufacturer Barclay Chemicals Manufacturing Ltd,
Damastown Way
Damastown Industrial Estate
Mulhuddart
Dublin 15
Ireland
Tel: + 353 1 811 29 00
Fax: + 353 1 822 46 78
email: info@barclay.ie

1.4. Emergency telephone number
+353 86 385 77 69

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (1999/45/EEC) Xi;R41. N;R51/53.
Human health Risk of serious damage to eyes.
Environment Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements
Labelling

Risk Phrases
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R41 Risk of serious damage to eyes.

Safety Phrases
- S25 Avoid contact with eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S39 Wear eye/face protection.
- S57 Use appropriate containment to avoid environmental contamination.
- S60 This material and its container must be disposed of as hazardous waste.
- S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

2.3. Other hazards
Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures
4.1. Description of first aid measures

General information

Remove affected person from source of contamination. Provide rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious.

Inhalation

Move the exposed person to fresh air at once. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention.

Ingestion

Get medical attention immediately! Remove victim immediately from source of exposure. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!

Skin contact

Remove victim immediately from source of exposure. Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Eye contact

Remove victim immediately from source of exposure. Immediately flush with plenty of water. Remove any contact lenses and open eyes wide apart. Call an ambulance and continue flushing during transportation to hospital. Bring these instructions.

4.2. Most important symptoms and effects, both acute and delayed

General information

NOTE! Effects may be delayed. Keep affected person under observation. Seek medical attention for all burns, regardless how minor they may seem.

Inhalation

No specific symptoms noted.

Ingestion

No specific symptoms noted.

Skin contact

No specific symptoms noted.

Eye contact

No specific symptoms noted.

4.3. Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!
Extinguishing media
Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
In case of fire, toxic gases (CO, CO₂, NOx) may be formed.

Unusual Fire & Explosion Hazards
Not known.

5.3. Advice for firefighters

Special Fire Fighting Procedures
Avoid breathing fire vapours. Keep up-wind to avoid fumes. Move container from fire area if it can be done without risk. Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

Protective equipment for fire-fighters
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Do not smoke, use open fire or other sources of ignition. Avoid inhalation of dust and vapours.

6.2. Environmental precautions

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. Do not discharge into drains, water courses or onto the ground. Do not allow to enter drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Clean-up personnel should use respiratory and/or liquid contact protection. Wash thoroughly after dealing with a spillage. Absorb spillage with non-combustible, absorbent material. Remove small spills with vacuum cleaner. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Inform Authorities if large amounts are involved.

6.4. Reference to other sections

For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Follow instructions and ensure correct dilution of this product before use.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Keep away from food, drink and animal feeding stuffs. Protect from freezing and direct sunlight. Protect against physical damage and/or friction. Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments
No exposure limits noted for ingredient(s).

8.2. Exposure controls

Protective equipment
Barclay Gallup 360 SL

Process conditions
Provide eyewash, quick drench.

Engineering measures
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Hand protection
Wear protective gloves.

Eye protection
Risk of serious damage to eyes. Wear tight-fitting goggles or face shield.

Other Protection
Provide eyewash station and safety shower. Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures
Wash contaminated clothing before reuse. Wash hands after handling. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Skin protection
Protection suit must be worn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Straw. Yellow.</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight odour.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Miscible with water</td>
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<tr>
<td>Relative density</td>
<td>1.167g/ml</td>
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<tr>
<td>pH-Value, Diluted Solution</td>
<td>5.3 1% in Water</td>
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<tr>
<td>Flash point</td>
<td>Scientifically unjustified.</td>
</tr>
<tr>
<td></td>
<td>&gt;100 Not noted.</td>
</tr>
</tbody>
</table>

9.2. Other information
Not relevant

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions
No information available.
Hazardous Polymerisation
Will not polymerise.

10.4. Conditions to avoid
Avoid heat, flames and other sources of ignition. Avoid frost. Avoid exposure to high temperatures or direct sunlight. Store in closed original container at temperatures between 0°C and 30°C.

10.5. Incompatible materials
Materials To Avoid
Keep in original container.

10.6. Hazardous decomposition products
None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50
>2000 mg/kg (oral rat)
Toxic Dose 2 - LD 50 >2000 mg/kg (dermal)
Skin contact
Skin irritation is not anticipated when used normally.

Eye contact
Irritating to eyes. Risk of serious damage to eyes.

### SECTION 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Test</th>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC 50</td>
<td>Fish mg/l</td>
<td>4.8</td>
</tr>
<tr>
<td>EC 50</td>
<td>Daphnia, mg/l</td>
<td>33.6</td>
</tr>
<tr>
<td>IC 50</td>
<td>Algae, mg/l</td>
<td>4.1</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

Degradability

The product is expected to be biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

#### 12.4. Mobility in soil

Mobility:

The product is miscible with water. May spread in water systems.

#### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

#### 12.6. Other adverse effects

Not applicable.

### SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

#### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground.

### SECTION 14: TRANSPORT INFORMATION

#### Road Transport Notes

Avoid releasing to the environment.

#### Rail Transport Notes

Avoid releasing to the environment.

#### Sea Transport Notes

Do not release into the environment.

#### 14.1. UN number

- UN No. (ADR/RID/ADN) 3082
- UN No. (IMDG) 3082
- UN No. (ICAO) 3082

#### 14.2. UN proper shipping name

Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Glyphosate Isopropylamine, Tallow alkylamine ethoxylate)

#### 14.3. Transport hazard class(es)

- ADR/RID/ADN Class 9
Barclay Gallup 360 SL

ADR/RID/ADN Class: Class 9: Miscellaneous dangerous substances and articles.
ADR Label No.: 9
IMDG Class: 9
ICAO Class/Division: 9
Transport Labels

14.4. Packing group
ADR/RID/ADN Packing group: III
IMDG Packing group: III
ICAO Packing group: III

14.5. Environmental hazards
Environmentally Hazardous Substance/Marine Pollutant

14.6. Special precautions for user
EMS: F-A, S-F
Emergency Action Code: •3Z
Hazard No. (ADR): 90
Tunnel Restriction Code: (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Legislation

15.2. Chemical Safety Assessment
No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments
Revision Date: 28/09/2012
Revision: 1
Supersedes date: 28/04/2011
Risk Phrases In Full
R22  Harmful if swallowed.
R36  Irritating to eyes.
R41  Risk of serious damage to eyes.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full
H302  Harmful if swallowed.
H318  Causes serious eye damage.
H319  Causes serious eye irritation.
H411  Toxic to aquatic life with long lasting effects.

Disclaimer
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.