SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form: Mixture
Product name: Goëmar BM 86
Synonyms: 5-0-0 with Secondary and Micronutrients

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Foliar nutritional formulation

1.3. Details of the supplier of the safety data sheet

Agrimar Corporation
15401 Weston Parkway, Suite 150
Cary, NC 27513 - USA

1.4. Emergency telephone number

Emergency number: Exposure Calls (PROSAR): +1-866-303-6952 or +1-651-603-3432 (international)
Spill Calls (CHEMTREC) (Contract # CCN1779): +1-800-424-9300 or +1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Eye Dam. 1 H318

2.2. Label elements

GHS-US labelling
Hazard pictograms (GHS-US):

GHS05

Signal word (GHS-US): Danger.
Hazard statements (GHS-US): H318 - Causes serious eye damage
Precautionary statements (GHS-US):
P280 - Wear protective gloves/eye protection
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Full text of H-phrases: see section 16

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-aminoethanol</td>
<td>(CAS No) 141-43-5</td>
<td>&lt; 5</td>
<td>Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 STOT SE 3, H335</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion: Do NOT induce vomiting. Rinse mouth. Call a POISON CENTER/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after eye contact: Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed
All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: None known.

5.2. Special hazards arising from the substance or mixture
Fire hazard: Not flammable.
Reactivity: No dangerous reactions known.

5.3. Advice for firefighters
Firefighting instructions: Do not allow run-off from fire fighting to enter drains or water courses. Exercise caution when fighting any chemical fire.

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures: Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel
Protective equipment: Chemical goggles or safety glasses. Wear suitable gloves.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Chemical goggles or safety glasses. Wear suitable gloves.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up
For containment: Absorb and/or contain spill with inert material, then place in suitable container. Never return spills to original container for re-use.

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Take up in non-combustible absorbent material and shove into container for disposal.

6.4. Reference to other sections
Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Do not get in eyes, on skin, or on clothing.
Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Do not store near food, foodstuffs, drugs, or potable water supplies. Keep only in the original container in a cool well ventilated place.

Incompatible products: None known.
Incompatible materials: Metals.
Storage area: Store out of frost (-10 °C).

7.3. Specific end use(s)
Fertilizer.

**SECTION 8: Exposure controls/personal protection**

8.1. Control parameters
All applicable Exposure Limits are shown.

<table>
<thead>
<tr>
<th>2-aminoethanol (141-43-5)</th>
<th>USA ACGIH</th>
<th>ACGIH TWA (mg/m³)</th>
<th>7.5 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
<td>ACGIH TWA (ppm)</td>
<td>3 ppm</td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH STEL (mg/m³)</td>
<td>15 mg/m³</td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>ACGIH STEL (ppm)</td>
<td>6 ppm</td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>Remark (ACGIH)</td>
<td>Eye &amp; skin irr</td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>6 mg/m³</td>
<td></td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (ppm)</td>
<td>3 ppm</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls
- Appropriate engineering controls: Avoid creating mist or spray. Avoid splashing. Eyewash stations.
- Personal protective equipment: Avoid all unnecessary exposure.
- Hand protection: Wear suitable protective clothing and gloves. Use rubber gloves.
- Eye protection: Chemical goggles or safety glasses. In case of splashing or aerosol production: protective goggles.
- Skin and body protection: Wear suitable protective clothing. Impervious clothing.
- Respiratory protection: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use an approved respirator equipped with oil/mist cartridges.
- Other information: Do not eat, drink or smoke when using this product.

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties
- Physical state: Liquid
- Colour: green. brown.
- Odour: slight.
- Odour threshold: No data available
- pH: 7.8 - 8.3 (pure product)
- Relative evaporation rate (butylacetate=1): No data available
- Melting point: No data available
- Freezing point: No data available
- Boiling point: No data available
- Flash point: > 93.3 °C
- Self ignition temperature: No data available
- Decomposition temperature: No data available
- Flammability (solid, gas): No data available
- Vapour pressure: No data available
- Relative vapour density at 20 °C: No data available
- Relative density: 1.27 - 1.285
- Solubility: Totally soluble in water in all proportions.
- Log Pow: No data available
- Log Kow: No data available
- Viscosity, kinematic: No data available
- Viscosity, dynamic: No data available
- Explosive properties: No data available
- Oxidising properties: No data available
Goëmar BM 86
Safety Data Sheet

Explosive limits : No data available

### 9.2. Other information
No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity
No dangerous reactions known.

### 10.2. Chemical stability
Stable under normal conditions. Product color changes with time, without effect on its properties.

### 10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

### 10.4. Conditions to avoid
Avoid excessive heat or cold. Do not store product at a temperature above 40 °C or below -10 °C.

### 10.5. Incompatible materials
Metals.

### 10.6. Hazardous decomposition products
No dangerous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Not classified</th>
</tr>
</thead>
</table>

**2-aminoethanol (141-43-5)**

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>1515 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>1822 (1822 - 3451) mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 1.3 mg/l</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Not classified

This product has been tested and found to be non irritating.

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified</td>
</tr>
<tr>
<td>Symptoms/injuries after eye contact</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Likely routes of exposure</td>
<td>Skin and eyes contact.</td>
</tr>
</tbody>
</table>

## SECTION 12: Ecological information

### 12.1. Toxicity

**2-aminoethanol (141-43-5)**

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>165 mg/l 48 h</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>65 mg/l 48 h</td>
</tr>
<tr>
<td>LC50 fishes 2</td>
<td>349 mg/l 96 h Cyprinus carpio</td>
</tr>
<tr>
<td>ErC50</td>
<td>2.5 mg/l 72 h Pseudokirchneriella subcapitata</td>
</tr>
<tr>
<td>NOEC</td>
<td>1.2 mg/l 30 j Oryzias latipes</td>
</tr>
<tr>
<td>LOEC</td>
<td>3.6 mg/l 30 j Oryzias latipes</td>
</tr>
<tr>
<td>NOEC</td>
<td>0.85 mg/l 21 j Daphnia magna</td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability
No adverse effect expected on sewage plant, all components are degradable, biodegradable, or assimilable.

**2-aminoethanol (141-43-5)**

<table>
<thead>
<tr>
<th>Persistence and degradability</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Readily biodegradable.</td>
</tr>
</tbody>
</table>
12.3. **Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Compound</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-aminoethanol (141-43-5)</td>
<td>-1.31</td>
</tr>
</tbody>
</table>

12.4. **Mobility in soil**

Mixtures components are completely soluble in water.

<table>
<thead>
<tr>
<th>Compound</th>
<th>Potential for mobility in soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-aminoethanol (141-43-5)</td>
<td>0 &lt; Koc &lt; 50</td>
</tr>
</tbody>
</table>

12.5. **Other adverse effects**

No additional information available

---

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

<table>
<thead>
<tr>
<th>Waste treatment methods</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sewage disposal recommendations</td>
<td>Do not dispose of waste into sewer.</td>
</tr>
<tr>
<td>Waste disposal recommendations</td>
<td>Dispose in a safe manner in accordance with local/national regulations.</td>
</tr>
<tr>
<td>Ecology - waste materials</td>
<td>Dispose of container in a licensed facility.</td>
</tr>
</tbody>
</table>

**SECTION 14: Transport information**

In accordance with DOT

Not considered a dangerous good for transport regulations

**Additional information**

Other information : No supplementary information available.

**ADR**

Transport document description : Not applicable

**Transport by sea**

No additional information available

**Air transport**

No additional information available

---

**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

2-aminoethanol (141-43-5) Listed on the United States TSCA (Toxic Substances Control Act) inventory

**15.2. International regulations**

**CANADA**

Goëmar BM 86

WHMIS Classification : Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

2-aminoethanol (141-43-5) Listed on the Canadian DSL (Domestic Substances List) inventory.

**EU-Regulations**

2-aminoethanol (141-43-5) Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Eye Dam. 1 H318

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Not classified
15.2.2. National regulations

2-aminoethanol (141-43-5)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on the AICS (the Australian Inventory of Chemical Substances).
Listed on Taiwan National Chemical Inventory
Listed on the Korean ECL (Existing Chemical List) inventory.
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.
Listed on the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).
Listed on the Chinese Catalog of Hazardous Chemicals.

15.3. US State regulations

2-aminoethanol (141-43-5)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Minnesota - Hazardous Substance List

SECTION 16: Other information

Indication of changes
Revised format. GHS classification information.

Data sources

Abbreviations and acronyms
ACGIH (American Conference of Government Industrial Hygienists).
ATE: Acute Toxicity Estimate.
CAS (Chemical Abstracts Service) number.
CLP: Classification, Labelling, Packaging.
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
OSHA: Occupational Safety & Health Administration.
TSCA: Toxic Substances Control Act.

Full text of H-phrases:

Acute Tox. 4 (Dermal)  Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation:dust,mist) Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4
Eye Dam. 1 Serious eye damage/eye irritation Category 1
Flam. Liq. 4 Flammable liquids Category 4
Skin Corr. 1B skin corrosion/irritation Category 1B
STOT SE 3 Specific target organ toxicity (single exposure) Category 3
H227 Combustible liquid
H302 Harmful if swallowed
H312 Harmful in contact with skin
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H332 Harmful if inhaled
H335 May cause respiratory irritation

NFPA health hazard
2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard
0 - Materials that will not burn.

NFPA reactivity
0 - Normally stable, even under fire exposure conditions, and not reactive with water.
Goëmar BM 86
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SDS Prepared by: The Redstone Group, LLC.
6397 Emerald Pkwy, Suite 200
Dublin, Ohio, USA 43016
614.923.7472
www.redstonegrp.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.