

COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

Registered address: FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

Email: info@scimplify.com

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SAFETY DATA SHEET

Glufosinate Ammonium Technical

1. Product Identification

- **Product Name:** Glufosinate Ammonium Technical
- **Chemical Name:** Ammonium (2RS)-2-amino-4-(hydroxy(methyl)phosphinyl)butyrate
- **CAS Number:** 77182-82-2
- **Molecular Formula:** C₅H₁₅N₂O₄P
- **Synonyms:** Phosphinothricin ammonium, L-glufosinate ammonium
- **Intended Use:** Herbicide used for post-emergent control of broadleaf weeds and grasses in various crops
- **Supplier/Manufacturer:** Cocreate Global Technologies Private Limited

2. Hazard Identification

- **Classification (GHS):**
 - Acute Toxicity (Oral): Category 4
 - Eye Irritation: Category 2A
 - Skin Irritation: Category 2
 - Specific Target Organ Toxicity (Single Exposure): Category 3 (Respiratory system)
- **Signal Word:** Warning
- **Hazard Statements:**
 - H302: Harmful if swallowed
 - H315: Causes skin irritation
 - H319: Causes serious eye irritation
 - H335: May cause respiratory irritation

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- **Precautionary Statements:**

- P264: Wash hands thoroughly after handling
- P270: Do not eat, drink, or smoke when using this product
- P280: Wear protective gloves, eye protection, and protective clothing

3. Composition / Information on Ingredients

Component	CAS Number	Concentration
Glufosinate Ammonium	77182-82-2	≥ 95%
Inert Ingredients	-	≤ 5%

4. First Aid Measures

- **Inhalation:** Move to fresh air immediately. If breathing is difficult, seek medical attention.
- **Skin Contact:** Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing and seek medical advice.
- **Ingestion:** Do not induce vomiting. Rinse mouth and seek immediate medical attention.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, or carbon dioxide
 - **Unsuitable Extinguishing Media:** None known
 - **Specific Hazards:** May emit toxic fumes (phosphorus oxides, nitrogen oxides) during combustion
 - **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and full protective gear
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6. Accidental Release Measures

- **Personal Precautions:** Wear protective gloves, clothing, and eye protection
 - **Environmental Precautions:** Prevent release into water bodies, soil, and drains
 - **Methods for Cleanup:** Collect spilled material mechanically and dispose of according to local regulations
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7. Handling and Storage

- **Handling:** Avoid inhalation, ingestion, and contact with skin and eyes. Use with adequate ventilation.
 - **Storage:** Store in a cool, dry, well-ventilated area. Keep container tightly closed. Protect from moisture and direct sunlight.
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8. Exposure Controls / Personal Protection

- **Exposure Limits:** No occupational exposure limits established
 - **Engineering Controls:** Use adequate ventilation systems
 - **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Use approved respirators if exposure limits are exceeded
 - **Hand Protection:** Chemical-resistant gloves
 - **Eye Protection:** Safety goggles or face shield
 - **Skin Protection:** Protective clothing
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9. Physical and Chemical Properties

- **Appearance:** White to off-white crystalline solid
- **Odor:** Odorless
- **Melting Point:** 200°C (decomposes)
- **Boiling Point:** Not applicable

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- **Solubility in Water:** Highly soluble
- **Density:** 1.5 g/cm³
- **pH:** 4.0–6.0 (10% solution)

10. Stability and Reactivity

- **Stability:** Stable under normal storage conditions
- **Conditions to Avoid:** Extreme heat, direct sunlight, and moisture
- **Incompatible Materials:** Strong oxidizing agents, strong acids, and bases
- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, phosphorus oxides

11. Toxicological Information

- **Acute Toxicity:**
 - Oral (Rat): LD50 = 2000 mg/kg
 - Dermal (Rabbit): LD50 > 2000 mg/kg
 - Inhalation (Rat): LC50 > 4.63 mg/L (4 hours)
- **Skin Irritation:** Causes irritation
- **Eye Irritation:** Causes irritation
- **Sensitization:** Not a known sensitizer
- **Chronic Effects:** No evidence of mutagenic or carcinogenic effects in standard studies

12. Ecological Information

- **Aquatic Toxicity:**
 - Fish (Rainbow trout): LC50 = 28 mg/L (96 hours)
 - Daphnia magna: EC50 = 42 mg/L (48 hours)
 - Algae: EC50 = 32 mg/L (72 hours)

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- **Persistence and Degradability:** Biodegradable
 - **Bioaccumulation Potential:** Low
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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations
 - Do not release into the environment
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14. Transport Information

- **UN Number:** Not classified as hazardous for transportation
 - **Transport Hazard Class:** Not applicable
 - **Packing Group:** Not applicable
 - **Environmental Hazards:** Not classified
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15. Regulatory Information

- **TSCA (USA):** Listed
 - **REACH (EU):** Complies with all applicable EU regulations
 - **FIFRA (USA):** Registered pesticide
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16. Other Information

- **Disclaimer:** The information provided is believed to be accurate but does not constitute a warranty.