

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 13.5% SL

1. Product Identification

- **Product Name:** Glufosinate Ammonium 13.5% SL
- **Chemical Name:** Glufosinate Ammonium
- **CAS Number:** 77182-82-2
- **Chemical Formula:** C₅H₁₅N₂O₄P
- **Formulation Type:** Soluble Liquid (SL)
- **Intended Use:** Non-selective, post-emergence herbicide used for weed management in agricultural fields, tea gardens, and cotton crops
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. Hazard Identification

- **GHS Classification:**
 - Acute Oral Toxicity: Category 4
 - Skin Irritation: Category 3
 - Eye Irritation: Category 2B
 - Specific Target Organ Toxicity (Single Exposure): Category 3
- **Signal Word:** Warning
- **Hazard Statements:**
 - H302: Harmful if swallowed
 - H316: Causes mild skin irritation
 - H320: Causes eye irritation
 - H335: May cause respiratory irritation

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- **Precautionary Statements:**

- P261: Avoid breathing mist or spray
- P264: Wash thoroughly after handling
- P271: Use only outdoors or in well-ventilated areas
- P280: Wear protective gloves, clothing, and eye protection
- P301+P312: IF SWALLOWED: Call a POISON CENTER if you feel unwell
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do
- P501: Dispose of contents/container in accordance with local regulations

3. Composition and Information on Ingredients

- **Active Ingredient:**

- **Glufosinate Ammonium:** 13.5% w/w

- **Inert Ingredients:**

- Surfactants, stabilizers, solvents, and water: 86.5% w/w

4. First-Aid Measures

- **Inhalation:** Move the affected person to fresh air. Seek medical attention if symptoms persist or breathing difficulties occur
 - **Skin Contact:** Remove contaminated clothing and wash thoroughly with soap and water. If irritation persists, consult a physician
 - **Eye Contact:** Rinse eyes cautiously with water for at least 15 minutes. Seek medical advice if irritation persists
 - **Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed by a healthcare professional. Seek immediate medical attention
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical powder, or carbon dioxide
 - **Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, and phosphorus oxides
 - **Fire-Fighting Instructions:**
 - Wear self-contained breathing apparatus (SCBA) and full protective clothing
 - Prevent runoff from entering waterways
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6. Accidental Release Measures

- **Personal Precautions:** Wear protective equipment and avoid contact with skin, eyes, and clothing
 - **Environmental Precautions:** Prevent product from contaminating soil, waterways, or drains
 - **Methods for Cleanup:**
 - Contain and absorb spillage with inert materials such as sand or earth
 - Collect material and place in a suitable container for disposal according to local regulations
 - Wash contaminated area thoroughly with water and detergent
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7. Handling and Storage

- **Handling:**
 - Avoid inhalation of spray mist and contact with skin and eyes
 - Wear appropriate PPE during handling
- **Storage:**
 - Store in a cool, dry, well-ventilated area away from direct sunlight and moisture
 - Keep the product in its original container tightly closed

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- Keep out of reach of children and unauthorized personnel
- **Shelf Life:** 2 years from the date of manufacture when stored under recommended conditions

8. Exposure Controls and Personal Protection

- **Occupational Exposure Limits:** No specific exposure limits established
- **Engineering Controls:** Provide adequate ventilation in enclosed areas
- **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** NIOSH-approved respirator for handling concentrated solutions
 - **Hand Protection:** Chemical-resistant gloves
 - **Eye Protection:** Safety goggles or face shield
 - **Skin Protection:** Protective clothing such as coveralls and boots

9. Physical and Chemical Properties

- **Appearance:** Clear to pale yellow liquid
 - **Odor:** Slight ammonia-like odor
 - **pH:** 5.0–7.0
 - **Melting Point:** Not applicable
 - **Boiling Point:** ~100°C
 - **Solubility in Water:** Completely soluble
 - **Density:** 1.10–1.20 g/cm³
 - **Viscosity:** Similar to water
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10. Stability and Reactivity

- **Chemical Stability:** Stable under recommended storage and usage conditions
 - **Conditions to Avoid:** Exposure to extreme heat, direct sunlight, and incompatible substances
 - **Incompatible Materials:** Strong oxidizing agents, strong acids, and alkalis
 - **Hazardous Decomposition Products:** May emit carbon monoxide, carbon dioxide, and nitrogen oxides under fire conditions
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11. Toxicological Information

- **Acute Toxicity:**
 - Oral LD50 (Rat): 500–1000 mg/kg (moderately toxic)
 - Dermal LD50 (Rabbit): >2000 mg/kg (low toxicity)
 - Inhalation LC50 (Rat, 4h): 0.7 mg/L
 - **Skin Irritation:** Causes mild irritation
 - **Eye Irritation:** Causes moderate eye irritation
 - **Sensitization:** No known sensitizing effects
 - **Carcinogenicity:** Not classified as a carcinogen
 - **Mutagenicity:** No evidence of mutagenic effects
 - **Reproductive Toxicity:** No adverse reproductive effects observed
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12. Ecological Information

- **Aquatic Toxicity:**
 - Fish (96h LC50 - Rainbow trout): 50 mg/L
 - Daphnia magna (48h EC50): 40 mg/L
 - Algae (72h EC50): 15 mg/L

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- **Bee Toxicity:** Moderately toxic; avoid application during flowering when bees are active
 - **Persistence and Degradability:** Moderately persistent in soil and water
 - **Bioaccumulation Potential:** Low
 - **Mobility in Soil:** Moderate; may leach under heavy rainfall
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13. Disposal Considerations

- **Product Disposal:** Dispose of in accordance with local, regional, and national regulations
 - **Container Disposal:** Triple rinse empty containers and puncture before disposal
 - **Environmental Precautions:** Do not allow product or rinse water to contaminate water bodies, soil, or drains
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14. Transport Information

- **UN Number:** UN3082
 - **Proper Shipping Name:** Environmentally hazardous substance, liquid, n.o.s. (Glufosinate Ammonium)
 - **Hazard Class:** 9 (Miscellaneous dangerous substances and articles)
 - **Packing Group:** III
 - **Marine Pollutant:** Yes
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15. Regulatory Information

- **U.S. EPA Registration:** Registered pesticide product
- **EU Classification:** Very toxic to aquatic life, may cause long-term adverse effects
- **International Regulations:**
 - Compliant with REACH (EU)
 - Registered under FAO International Code of Conduct on Pesticide Management

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16. Other Information

- **Disclaimer:** This information is accurate to the best of our knowledge and should be used as a guideline for safe handling, storage, transportation, and disposal. The user is responsible for ensuring compliance with applicable local regulations.