

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

Glyphosate Technical

1. Identification

- **Product Name:** Glyphosate Technical
- **Chemical Formula:** $C_3H_8NO_5P$
- **Molecular Weight:** 169.1 g/mol
- **Chemical Name:** N-Phosphonomethyl glycine
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. Composition / Information on Ingredients

- **Active Ingredient:** Glyphosate (CAS No. 1071-83-6)
- **Content:** $\geq 95\%$ w/w

3. Hazard Identification

- **Appearance & Odor:** White crystalline powder, mild to odorless
- **Potential Health Effects:**
 - **Eye Contact:** Causes irritation.
 - **Skin Contact:** May cause mild irritation on prolonged exposure.
 - **Inhalation:** Harmful if inhaled.
 - **Ingestion:** Harmful if swallowed.
- **Environmental Hazard:** Used as an herbicide, potentially harmful to plants and weeds.
- **Warning Statement:** Keep out of reach of children.

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4. First Aid Measures

- **Eye Contact:** Flush with water for **15-20 minutes**. Remove contact lenses after 5 minutes. Seek medical attention.
 - **Skin Contact:** Wash with soap and water. Seek medical attention if irritation develops.
 - **Inhalation:** Move to fresh air and seek medical advice if symptoms persist.
 - **Ingestion:** Offer **drinking water**, do not induce vomiting. Seek immediate medical attention.
 - **Note to Physician:** Treat symptomatically. No specific antidote.
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5. Fire-Fighting Measures

- **Combustion Products:** CO, CO₂, phosphorus pentoxide, nitrogen oxides.
 - **Extinguishing Media:**
 - **Suitable:** Dry chemical powder, CO₂, or water flood.
 - **Not Suitable:** No unusual fire hazard, but firefighters should avoid direct contact.
 - **Firefighter Protection:** Use **self-contained breathing apparatus (SCBA)** and full protective gear.
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6. Accidental Release Measures

- **Personal Precautions:** Wear **eye protection, gloves, and protective clothing**.
- **Spill Management:**
 - Contain the spill to prevent soil or water contamination.
 - Use absorbent materials (sand/soil), then collect and place in containers.
 - Clean the affected area with detergent and rinse with minimal water.
- **Spills in Water:**
 - Isolate the contaminated area.
 - Remove contaminated water for **treatment or incineration**.

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7. Handling and Storage

- **Handling Precautions:**
 - Use in a **well-ventilated area**.
 - Avoid **skin and eye contact**.
 - Do not inhale dust.
 - Wash hands and face thoroughly after handling.
- **Storage Conditions:**
 - Keep containers tightly closed.
 - Store in a **cool, dry, well-ventilated place** away from food, feed, and sunlight.
 - **Lock storage areas** to prevent unauthorized access.
- **Specific Use:** For **manufacturing herbicide formulations** only.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** No established limits; follow local regulations.
- **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Required in case of **dust generation**.
 - **Gloves:** Chemical-resistant gloves.
 - **Eye Protection:** Safety goggles or face shield.
 - **Skin Protection:** Wear protective clothing and ensure access to **eye wash stations**.

9. Physical and Chemical Properties

- **Physical State:** Solid
- **Appearance:** White crystalline powder
- **Odor:** Mild to odorless

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- **Density:** $1.67 \pm 0.02 \text{ g/cm}^3$ (at 20°C)
 - **pH:** 1.86–1.90
 - **Vapor Pressure:** $1.2636 \times 10^{-5} \text{ Pa}$
 - **Melting Point:** $>295^\circ\text{C}$
 - **Solubility in Water:** $12.91 \pm 0.25 \text{ g/L}$ at 30°C
 - **Flash Point:** Not flammable
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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal storage conditions.
 - **Incompatible Materials:** No known hazardous reactions.
 - **Decomposition Products:** Carbon monoxide (CO), carbon dioxide (CO₂), phosphorus pentoxide, and nitrogen oxides.
 - **Hazardous Polymerization:** Not known.
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11. Toxicological Information

- **Toxicity Data:**
 - **Oral LD50 (rat):** $>2000 \text{ mg/kg}$ body weight
 - **Dermal LD50 (rat):** $>2000 \text{ mg/kg}$ body weight
 - **Inhalation LC50 (4-hour, rat):** $>5.04 \text{ mg/L}$ air
 - **Acute Oral Toxicity in Birds:** $>3851 \text{ mg/kg}$ (Bobwhite quail)
 - **Acute Toxicity in Fish:**
 - **Rainbow Trout LC50 (96h):** 86 mg/L
 - **Acute Toxicity in Honey Bees:**
 - **Oral & Contact LC50 (48h):** $>100 \text{ }\mu\text{g/bee}$
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12. Ecological Information

- **Environmental Impact:**
 - Herbicide formulation can **harm non-target plants**.
 - **Aquatic Toxicity:**
 - **Highly toxic to fish** and **aquatic invertebrates**.
 - **Biodegradability: Low persistence in the environment.**
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13. Disposal Considerations

- **Waste Disposal:**
 - **Do not dump into sewers, rivers, or waterways.**
 - Dispose of in an **approved pesticide landfill**.
 - **Incineration** is preferred with **flue gas scrubbing**.
 - **Container Disposal:**
 - Triple rinse containers.
 - Dispose of according to **local regulations**.
 - **Do not reuse containers.**
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14. Transport Information

- **UN Number: 3077**
 - **IMDG Classification: Class 9 (Environmentally Hazardous Substances)**
 - **Proper Shipping Name: Environmentally Hazardous Substance, Solid, n.o.s. (Glyphosate)**
 - **Packing Group: III**
 - **Marine Pollutant: No**
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15. Regulatory Information

- **Compliance:**
 - Product is **registered for herbicide formulation use**.
 - Follow all **local regulatory guidelines**.
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16. Other Information

- **Intended Use:** Industrial formulation of herbicides.
- **User Responsibility:** Ensure safety measures are followed based on local conditions.
- **Disclaimer:**
 - Information provided is based on current knowledge.
 - The **manufacturer assumes no liability** for improper handling.