

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

6-Benzylaminopurine

1. Identification

- **Product Name:** 6-Benzylaminopurine
- **CAS Number:** 1214-39-7
- **Molecular Formula:** $C_{12}H_{11}N_5$
- **Molecular Weight:** 225.3 g/mol
- **Intended Use:** Plant growth regulator
- **Supplier/Manufacturer:** Cocreate Global Technologies Private Limited

2. Hazards Identification

- **Hazard Classification (GHS):**
 - **Acute Toxicity (Oral) - Category 4 (H302: Harmful if swallowed)**
 - **Reproductive Toxicity - Category 2 (H361fd: Suspected of damaging fertility and the unborn child)**
 - **Aquatic Hazard (Chronic) - Category 1 (H410: Very toxic to aquatic life with long-lasting effects)**
- **Signal Word:** ⚠ Warning
- **Hazard Pictograms:**
- **Precautionary Statements:**
 - **P202:** Do not handle until all safety precautions have been read and understood.
 - **P270:** Do not eat, drink, or smoke when using this product.
 - **P273:** Avoid release to the environment.
 - **P280:** Wear protective gloves, clothing, and eye/face protection.
 - **P301+P312:** If swallowed, call a POISON CENTER/doctor if you feel unwell.
 - **P308+P313:** If exposed or concerned, get medical advice/attention.

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- **P391:** Collect spillage.
- **P405:** Store locked up.
- **P501:** Dispose of contents/container according to local regulations.

3. Composition / Information on Ingredients

Chemical Name	CAS Number	Concentration (%)
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6-Benzylaminopurine	1214-39-7	≥98%
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4. First Aid Measures

- **Inhalation:** Move the person to fresh air. Seek medical help if breathing difficulty persists.
- **Skin Contact:** Brush off loose particles, rinse skin with water/shower.
- **Eye Contact:** Remove contact lenses and rinse with fresh water for **at least 10 minutes**. Seek medical attention if irritation persists.
- **Ingestion: DO NOT induce vomiting.** Rinse mouth with water and seek **immediate medical attention**.
- **Most Important Symptoms:** Irritation, nausea, reproductive toxicity concerns.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, ABC-powder.
 - **Fire Hazards:**
 - Deposited dust has explosion potential.
 - Emits **carbon oxides (CO, CO₂)**, **nitrogen oxides (NO_x)** during combustion.
 - **Firefighter Protection:** SCBA (Self-Contained Breathing Apparatus) and full protective gear.
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6. Accidental Release Measures

- **Personal Precautions:**
 - Avoid dust formation. Wear **respirator, gloves, goggles.**
 - **Environmental Precautions:**
 - **Do not allow the product to enter drains or water bodies.**
 - **Cleanup Procedures:**
 - **Sweep up carefully, avoid creating dust, and collect in sealed containers.**
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7. Handling and Storage

- **Handling Precautions:**
 - Avoid skin contact, eye contact, and inhalation.
 - Use **adequate ventilation.**
 - **Storage Conditions:**
 - Store in a **dry, cool, well-ventilated area.**
 - Keep in **tightly closed containers under inert gas.**
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8. Exposure Controls / Personal Protection

- **Engineering Controls:** Ensure proper ventilation.
 - **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** NIOSH-approved respirator for toxic fumes.
 - **Hand Protection:** Nitrile, Butyl, or Neoprene gloves.
 - **Eye Protection:** Safety goggles (EN 166 standard).
 - **Skin Protection:** Long-sleeved protective clothing.
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9. Physical and Chemical Properties

Property	Value
Physical State	Solid (Powder)
Color	Light Yellow
Odor	Characteristic
Melting Point	230 – 233°C
Boiling Point	Not Determined
Solubility in Water	Low
Density	Not Determined
Flash Point	Not Applicable
Auto-ignition Temperature	Not Determined

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Oxidizing agents.
- **Hazardous Decomposition Products:** CO, CO₂, NO_x.

11. Toxicological Information

Toxicity Parameter	Result
Oral LD50 (Rat)	500 mg/kg
Dermal LD50 (Rabbit)	Not available
Inhalation LC50 (Rat, 4h)	Not available

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Toxicity Parameter	Result
Eye Irritation	Causes serious eye irritation.
Skin Irritation	Causes skin irritation.
Reproductive Toxicity	Suspected of damaging fertility and unborn child.

12. Ecological Information

- **Very toxic to aquatic life.**
 - **Bioaccumulative Potential: No data available.**
 - **Mobility in Soil: No data available.**
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13. Disposal Considerations

- **Product Disposal: Dispose of in an approved hazardous waste facility.**
 - **Container Disposal: Do not reuse. Follow local regulations.**
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14. Transport Information

Transport Mode	Classification
UN Number	3077
Hazard Class	9 (Miscellaneous Dangerous Goods)
Packing Group	III
Environmental Hazard Yes	

15. Regulatory Information

- **Regulatory Compliance:**
 - **EU REACH (EC 1907/2006)**

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- **Classified under GHS**

16. Other Information

- **Disclaimer:**
 - The information provided is for guidance and safety purposes.
 - The supplier does not assume liability for improper handling.