

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
Indole-3-Acetic Acid (IAA)

1. Product Identification

- **Product Name:** Indole-3-Acetic Acid (IAA)
- **Chemical Name:** 1H-Indole-3-acetic acid
- **CAS Number:** 87-51-4
- **Molecular Formula:** C₁₀H₉NO₂
- **Molecular Weight:** 175.19 g/mol
- **Synonyms:** Heteroauxin, IAA, 3-Indoleacetic acid
- **Intended Use:** Plant growth regulator, used in agriculture and plant research to promote root formation and cell elongation
- **Supplier/Manufacturer:** Cocreate Global Technologies Private Limited

2. Hazard Identification

- **Classification (GHS):**
 - Skin Irritation: Category 2
 - Eye Irritation: Category 2A
 - Acute Toxicity (Oral): Category 5
- **Signal Word:** Warning
- **Hazard Statements:**
 - H315: Causes skin irritation
 - H319: Causes serious eye irritation
 - H303: May be harmful if swallowed
- **Precautionary Statements:**
 - P264: Wash hands thoroughly after handling

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- P280: Wear protective gloves, protective clothing, eye protection, and face protection
- P305+P351+P338: If in eyes, rinse cautiously with water for several minutes

3. Composition / Information on Ingredients

Component	CAS Number	Concentration
Indole-3-Acetic Acid	87-51-4	≥ 98%
Inert Ingredients	-	≤ 2%

4. First Aid Measures

- **Inhalation:** Move the exposed person to fresh air immediately. Seek medical attention if symptoms persist.
- **Skin Contact:** Remove contaminated clothing and wash skin thoroughly with soap and water.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. If irritation persists, seek medical advice.
- **Ingestion:** Rinse mouth thoroughly with water. Seek medical attention if feeling unwell.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, foam, dry chemical, or carbon dioxide (CO₂)
- **Specific Hazards:** May emit toxic fumes, including nitrogen oxides and carbon oxides, during combustion
- **Protective Equipment:** Use self-contained breathing apparatus and protective gear

6. Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment to avoid inhalation and contact with skin and eyes
- **Environmental Precautions:** Prevent release into drains, soil, and waterways

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- **Methods for Cleanup:** Sweep or vacuum spilled material and place it in a suitable waste container for disposal
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7. Handling and Storage

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

- **Engineering Controls:** Ensure proper ventilation in the working area
 - **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Use a suitable respirator if ventilation is inadequate
 - **Skin Protection:** Wear chemical-resistant gloves and protective clothing
 - **Eye Protection:** Safety goggles
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9. Physical and Chemical Properties

- **Appearance:** White to off-white crystalline powder
 - **Odor:** Odorless
 - **Melting Point:** 168–170°C
 - **Solubility:** Soluble in ethanol and dimethyl sulfoxide (DMSO); sparingly soluble in water
 - **pH:** ~5.5 (in aqueous solution)
 - **Density:** ~1.35 g/cm³
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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal storage and handling conditions
- **Conditions to Avoid:** Heat, moisture, and direct sunlight

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- **Incompatible Materials:** Strong oxidizing agents
 - **Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, and carbon dioxide
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11. Toxicological Information

- **Acute Toxicity:**
 - Oral (Rat): LD50 > 2000 mg/kg
 - **Skin Irritation:** Causes mild skin irritation
 - **Eye Irritation:** Causes eye irritation
 - **Sensitization:** Not classified as a sensitizer
 - **Chronic Effects:** No evidence of carcinogenicity, mutagenicity, or reproductive toxicity under standard exposure
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12. Ecological Information

- **Aquatic Toxicity:**
 - Fish (Zebrafish): LC50 > 100 mg/L (96 hours)
 - Daphnia magna: EC50 > 100 mg/L (48 hours)
 - **Persistence and Degradability:** Readily biodegradable
 - **Bioaccumulation Potential:** Low
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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations
 - Avoid release into the environment
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14. Transport Information

- **UN Number:** Not classified as hazardous for transportation
- **Transport Hazard Class:** Not applicable

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- **Packing Group:** Not applicable
 - **Environmental Hazards:** Not classified
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15. Regulatory Information

- **TSCA (USA):** Listed
 - **REACH (EU):** Registered substance
 - **FIFRA (USA):** Not applicable
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16. Other Information

- **Disclaimer:** The information provided is accurate to the best of our knowledge but does not guarantee specific properties. The user must ensure safe handling and compliance with all regulations.