

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-Butyric Acid (IBA)

1. Product Identification

- **Product Name:** Indole-3-Butyric Acid (IBA)
- **Chemical Name:** 1H-Indole-3-butyric acid
- **CAS Number:** 133-32-4
- **Molecular Formula:** C₁₂H₁₃NO₂
- **Molecular Weight:** 203.24 g/mol
- **Synonyms:** 4-(Indol-3-yl)butyric acid, IBA
- **Intended Use:** Plant growth regulator (auxin), used to promote root formation in cuttings and transplants
- **Supplier/Manufacturer:**

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; remove contact lenses if present

3. Composition / Information on Ingredients

Component	CAS Number	Concentration
Indole-3-Butyric Acid	133-32-4	≥ 98%
Inert Ingredients	-	≤ 2%

4. First Aid Measures

- **Inhalation:** Move to fresh air immediately. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash skin thoroughly with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek immediate medical assistance if symptoms occur.

5. Fire-Fighting Measures

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

6. Accidental Release Measures

- **Personal Precautions:** Wear protective clothing, gloves, and eye protection to prevent contact
- **Environmental Precautions:** Avoid release into the environment; prevent entry into drains and waterways

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- **Cleanup Methods:** Collect spillage using non-sparking tools and place in a suitable container for disposal
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7. Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing. Provide adequate ventilation.
 - **Storage:** Store in a cool, dry, and well-ventilated area. Keep containers tightly sealed and away from sunlight and incompatible materials
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8. Exposure Controls / Personal Protection

- **Engineering Controls:** Use local exhaust ventilation if available
 - **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Use an approved respirator if exposure limits are exceeded
 - **Skin Protection:** Wear chemical-resistant gloves and protective clothing
 - **Eye Protection:** Safety goggles or face shield
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9. Physical and Chemical Properties

- **Appearance:** White to off-white crystalline powder
 - **Odor:** Odorless
 - **Melting Point:** 122–125°C
 - **Solubility:** Slightly soluble in water; soluble in ethanol, acetone, and DMSO
 - **pH:** ~5.0 (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 oxidizers and acids
 - **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides
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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 known carcinogenic, mutagenic, or reproductive toxicity effects
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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:** Biodegradable
 - **Bioaccumulation Potential:** Low
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13. Disposal Considerations

- Dispose of according to local, regional, and national regulations
 - Avoid release into the environment
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14. Transport Information

- **UN Number:** Not classified as hazardous for transport
- **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:** This information is accurate to the best of our knowledge but does not guarantee specific properties. The user is responsible for ensuring compliance with applicable regulations.