

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

Azadirachtin

1. Identification of the Substance and Supplier

- **Product Name:** Azadirachtin
- **Chemical Name:** Tetranortriterpenoid
- **CAS Number:** 11141-17-6
- **Molecular Formula:** C₃₅H₄₄O₁₆
- **Intended Use:** Biopesticide/Insecticide for agricultural pest control
- **Supplier/Manufacturer:** Cocreate Global Technologies Private Limited

2. Hazard Identification

- **GHS Classification:**
 - Acute Toxicity (Oral) Category 4
 - Skin Irritant Category 2
 - Eye Irritant Category 2A
 - Aquatic Toxicity Category 2
- **Signal Word:** Warning
- **Hazard Statements:**
 - H302: Harmful if swallowed
 - H315: Causes skin irritation
 - H319: Causes serious eye irritation
 - H411: Toxic to aquatic life with long-lasting effects
- **Precautionary Statements:**
 - P280: Wear protective gloves/eye protection
 - P270: Do not eat, drink, or smoke when using this product

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- P305 + P351 + P338: If in eyes, rinse cautiously with water

3. Composition / Information on Ingredients

Ingredient	CAS Number	Percentage
Azadirachtin	11141-17-6	Varies (0.3% - 10%)
Inert Ingredients	N/A	Balance

4. First-Aid Measures

- **Inhalation:** Move the affected person to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. If irritation persists, seek medical advice.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present. Seek medical attention if irritation continues.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek immediate medical attention.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO₂
- **Specific Hazards:** May emit toxic fumes under fire conditions (carbon oxides)
- **Protective Equipment for Firefighters:** Use self-contained breathing apparatus (SCBA) and full protective gear.

6. Accidental Release Measures

- **Personal Precautions:** Wear protective gloves, goggles, and clothing. Avoid inhalation of spray or dust.
- **Environmental Precautions:** Prevent entry into water bodies and drains. Highly toxic to aquatic organisms.

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- **Cleanup Methods:** Absorb with inert material (sand, clay) and place in a suitable container for disposal according to local regulations.
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7. Handling and Storage

- **Handling Precautions:**
 - Avoid inhalation, ingestion, and skin/eye contact.
 - Use only with adequate ventilation.
 - Wash hands thoroughly after handling.
 - **Storage Conditions:**
 - Store in a cool, dry, well-ventilated area away from direct sunlight and incompatible materials.
 - Keep containers tightly closed.
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8. Exposure Controls / Personal Protection

- **Exposure Limits:** No established limits for Azadirachtin.
 - **Engineering Controls:** Use adequate ventilation and local exhaust if required.
 - **Personal Protective Equipment (PPE):**
 - **Eye Protection:** Safety goggles
 - **Skin Protection:** Chemical-resistant gloves, protective clothing
 - **Respiratory Protection:** Use a respirator if exposure limits are exceeded
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9. Physical and Chemical Properties

- **Appearance:** Yellow to brown liquid (extract) or powder (pure form)
- **Odor:** Characteristic neem-like odor
- **pH:** 5.5 – 7.5
- **Density:** ~1.05 g/cm³

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- **Solubility:** Slightly soluble in water, highly soluble in organic solvents
 - **Flash Point:** >100°C
 - **Boiling Point:** Not determined
 - **Vapor Pressure:** Low
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10. Stability and Reactivity

- **Stability:** Stable under normal storage and handling conditions
 - **Conditions to Avoid:** High temperatures, direct sunlight, moisture
 - **Incompatible Materials:** Strong acids, strong bases, oxidizing agents
 - **Hazardous Decomposition Products:** Carbon oxides
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11. Toxicological Information

- **Acute Toxicity (Oral LD50):** ~2000 mg/kg (Rat)
 - **Acute Toxicity (Dermal LD50):** >2000 mg/kg (Rat)
 - **Acute Toxicity (Inhalation LC50):** >5 mg/L (Rat, 4h)
 - **Skin Sensitization:** May cause irritation and allergic reactions
 - **Eye Irritation:** Causes moderate eye irritation
 - **Carcinogenicity:** Not classified as a carcinogen by IARC, NTP, or OSHA
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12. Ecological Information

- **Ecotoxicity:**
 - Toxic to aquatic life
 - LC50 (Fish, 96h): 0.1 – 1.0 mg/L
 - EC50 (Daphnia, 48h): 0.5 mg/L
- **Persistence & Degradability:** Biodegradable, moderate persistence in soil

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- **Bioaccumulation:** Low potential for bioaccumulation
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13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local, state, and national regulations. Do not release into water bodies.
 - **Container Disposal:** Do not reuse empty containers. Follow proper hazardous waste disposal methods.
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14. Transport Information

- **UN Number:** UN3082
 - **Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. (Azadirachtin)
 - **Hazard Class:** 9 (Miscellaneous Dangerous Goods)
 - **Packing Group:** III
 - **Marine Pollutant:** Yes
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15. Regulatory Information

- **U.S. EPA Status:** Registered under FIFRA
 - **EU Classification:** Hazardous according to Regulation (EC) No 1272/2008
 - **TSCA:** Not listed
 - **WHMIS Classification (Canada):** Class D-2B (Toxic Material)
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16. Other Information

- **Disclaimer:** The information provided in this MSDS is believed to be accurate based on current knowledge. However, no warranty, express or implied, is given regarding the accuracy or completeness of this information. Users are responsible for ensuring safe handling and compliance with applicable regulations.