COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED
U21009KA2023PTC179006
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SAFETY DATA SHEET
3-CYANOPYRIDINE

1. Identification

- **Product Name:** 3-Cyanopyridine
- **Synonyms:** Nicotinonitrile
- **CAS Number:** 100-54-9
- **EC Number:** 202-863-0
- **Recommended Use:** Laboratory chemical, intermediate
- **Supplier / Manufacturer:** Cocreate Global Technologies Private Limited

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2. Hazard(s) Identification

- **Classification (GHS):**
  - Acute toxicity (oral) – Category 4
  - Skin irritation – Category 2
  - Serious eye damage – Category 1
  - STOT, single exposure – Category 3 (respiratory tract irritation)
  - Aquatic chronic – Category 3
- **Label Elements:**
  - **Signal Word:** *Danger*
  - **Hazard Statements:**
    - H302: Harmful if swallowed
    - H315: Causes skin irritation
    - H318: Causes serious eye damage
    - H335: May cause respiratory irritation

- H412: Harmful to aquatic life with long lasting effects

- **Precautionary Statements:**
  - P264: Wash hands thoroughly after handling
  - P270: Do not eat, drink or smoke when using this product
  - P280: Wear protective gloves/eye protection
  - P305+P351+P338: IF IN EYES: Rinse with water. Remove contact lenses if present. Continue rinsing
  - P501: Dispose of contents/container in accordance with local regulations

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3. Composition/Information on Ingredients

Component	CAS No.	EC No.	Concentration
3-Cyanopyridine	100-54-9	202-863-0	≥ 99%

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4. First-Aid Measures

- **Inhalation:** Move to fresh air. If breathing is difficult, give oxygen and seek medical attention.
- **Skin Contact:** Wash skin thoroughly with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek immediate medical attention.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical help immediately.
- **Most Important Symptoms:** Irritation to skin, eyes, respiratory tract.

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5. Fire-Fighting Measures

- **Extinguishing Media:** Water spray, dry chemical, foam, CO_2.
- **Hazardous Combustion Products:** Nitrogen oxides, carbon oxides, hydrogen cyanide.
- **Advice for Firefighters:** Wear self-contained breathing apparatus and full protective gear.

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6. Accidental Release Measures

- **Personal Precautions:** Avoid dust. Ensure proper ventilation. Wear protective gear.
- **Environmental Precautions:** Prevent further leakage. Avoid runoff into water bodies.
- **Clean-up Methods:** Sweep up and place into properly labeled containers. Dispose of safely.

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7. Handling and Storage

- **Handling:** Use with adequate ventilation. Avoid contact with eyes, skin, and clothing.
- **Storage:** Store tightly closed in a cool, dry, well-ventilated area. Avoid moisture.

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8. Exposure Controls/Personal Protection

- **Engineering Controls:** Use fume hood/local exhaust. Avoid aerosol generation.
- **Personal Protection:**
    - Eyes: Chemical goggles or face shield
    - Skin: Protective gloves
    - Clothing: Lab coat or protective suit
    - Respiratory: NIOSH-approved respirator in case of dust formation
- **Hygiene Measures:** Wash hands after handling. Remove contaminated clothing.

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9. Physical and Chemical Properties

- **Appearance:** Beige crystalline solid
- **Odor:** Mild, pyridine-like
- **Melting Point:** 52–56 °C
- **Boiling Point:** 198–202 °C
- **Flash Point:** 88 °C
- **Solubility:** Soluble in water and organic solvents

- **Density:** 1.16 g/cm³
- **Log Pow:** 0.36

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10. Stability and Reactivity

- **Reactivity:** No dangerous reactions under normal conditions
- **Chemical Stability:** Stable under recommended storage conditions
- **Incompatible Materials:** Strong acids, bases, oxidizers
- **Hazardous Decomposition Products:** CO, CO_2, NO_x, HCN
- **Conditions to Avoid:** Heat, flames, incompatible materials

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11. Toxicological Information

- **Acute Toxicity:**
  - Oral (rat) LD50: ~1100 mg/kg
  - Dermal (rabbit): >2000 mg/kg
- **Skin Corrosion/Irritation:** Irritating to skin
- **Eye Damage/Irritation:** Causes serious damage
- **STOT (Single):** Respiratory tract irritation
- **Carcinogenicity/Mutagenicity:** Not classified
- **Reproductive Toxicity:** No data available
- **Aspiration Hazard:** No data

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12. Ecological Information

- **Ecotoxicity:** Harmful to aquatic life
  - Algae EC50 (96h): ~232 mg/L
- **Persistence/Degradability:** Not readily biodegradable

- **Bioaccumulative Potential:** Low (log Pow = 0.36)
- **Mobility in Soil:** Likely mobile
- **Other Adverse Effects:** No data

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13. Disposal Considerations

- **Waste Treatment:** Dispose in accordance with local regulations
- **Contaminated Packaging:** Treat as hazardous waste unless fully decontaminated

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14. Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Not regulated
- **Transport Hazard Class:** None
- **Packing Group:** None
- **Marine Pollutant:** No
- **Special Precautions:** Avoid direct contact and spills

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15. Regulatory Information

- **US TSCA:** Listed
- **EU REACH:** Registered
- **Hazard Symbols (EU):** Xn (Harmful), Xi (Irritant)
- **WHMIS (Canada):** D2B – Toxic Material
- **Other Regulations:** Follow all applicable local, state, and federal regulations

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16. Other Information

- **Disclaimer:** The information above is believed to be accurate but does not claim to be complete and should be used only as a guide. Users must exercise independent judgment and verify suitability.