

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.

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SAFETY DATA SHEET
3-Pyridinecarboxaldehyde

1. Product Identification

- **Product Name:** 3-Pyridinecarboxaldehyde
- **Synonyms:** Nicotinaldehyde, Pyridine-3-aldehyde
- **CAS Number:** 500-22-1
- **EC Number:** 207-900-4
- **Molecular Formula:** C_6H_5NO
- **Molar Mass:** 107.11 g/mol
- **Intended Use:** For synthesis and research purposes
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. Hazard Identification

- **Hazard Classification:**
 - Flammable liquid and vapor
 - Harmful if swallowed
 - Causes skin irritation
 - May cause an allergic skin reaction
 - May cause respiratory irritation
 - Harmful to aquatic life with long-lasting effects
- **Signal Word:** Warning
- **Hazard Statements:**
 - H226: Flammable liquid and vapor
 - H302: Harmful if swallowed
 - H315: Causes skin irritation

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- H317: May cause an allergic skin reaction
- H335: May cause respiratory irritation
- H412: Harmful to aquatic life with long-lasting effects
- **Precautionary Statements:**
 - P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
 - P233: Keep container tightly closed.
 - P273: Avoid release to the environment.
 - P280: Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.
 - P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
 - P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

3. Composition/Information on Ingredients

- **Chemical Name:** 3-Pyridinecarboxaldehyde
- **CAS Number:** 500-22-1
- **Concentration:** >98%

4. First Aid Measures

- **Inhalation:** If inhaled, remove the person to fresh air immediately. Seek medical attention if symptoms persist.
- **Skin Contact:** In case of skin contact, remove contaminated clothing and wash the affected area thoroughly with soap and water.
- **Eye Contact:** If the substance enters the eyes, hold eyelids apart and flush the eyes continuously with running water for at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** If swallowed, do not induce vomiting. Rinse mouth with water and seek medical attention immediately.

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5. Fire-Fighting Measures

- **Flammability:** Flammable liquid and vapor.
- **Suitable Extinguishing Media:** Use alcohol-resistant foam, dry chemical powder, or carbon dioxide.
- **Special Firefighting Procedures:** Firefighters should wear self-contained breathing apparatus and full protective clothing. Evacuate area and fight fire from a safe distance.
- **Hazardous Combustion Products:** Combustion may produce carbon monoxide (CO), carbon dioxide (CO₂), and nitrogen oxides (NO_x).

6. Accidental Release Measures

- **Personal Precautions:** Remove all ignition sources. Avoid inhalation and contact with skin and eyes. Wear appropriate personal protective equipment.
- **Environmental Precautions:** Prevent entry into waterways, sewers, basements, or confined areas.
- **Cleanup Methods:** Contain and collect spillage with non-combustible absorbent materials (e.g., sand, earth, diatomaceous earth) and place in a suitable container for disposal according to local regulations.

7. Handling and Storage

- **Handling:** Avoid all personal contact, including inhalation. Use in a well-ventilated area away from ignition sources. Wear protective clothing when risk of exposure occurs.
- **Storage:** Store in original containers in approved flammable liquid storage areas. Keep containers tightly closed in a cool, dry, well-ventilated place away from incompatible materials.

8. Exposure Controls/Personal Protection

- **Engineering Controls:** Use local exhaust ventilation or process enclosure to control airborne exposure. Ventilation equipment should be explosion-resistant.
- **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Use a NIOSH-approved respirator with an organic vapor cartridge if exposure limits are exceeded.

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- **Eye Protection:** Safety glasses with side shields or chemical goggles.
- **Skin Protection:** Wear chemical-resistant gloves (e.g., PVC) and protective clothing.
- **Hygiene Measures:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory, and at the end of the working period.

9. Physical and Chemical Properties (Continued)

- **Appearance:** Clear to pale yellow liquid
 - **Odor:** Pungent
 - **Odor Threshold:** Not available
 - **pH:** Not available
 - **Melting Point:** -30°C
 - **Boiling Point:** 168-170°C
 - **Flash Point:** 57°C (closed cup)
 - **Evaporation Rate:** Not available
 - **Flammability:** Flammable liquid and vapor
 - **Upper/Lower Flammability Limits:** Not available
 - **Vapor Pressure:** 0.3 mmHg at 25°C
 - **Vapor Density (Air=1):** Not available
 - **Relative Density:** 1.133 g/cm³ at 25°C
 - **Solubility:** Soluble in water and organic solvents
 - **Partition Coefficient (n-octanol/water):** Not available
 - **Auto-Ignition Temperature:** Not available
 - **Decomposition Temperature:** Not available
 - **Viscosity:** Not available
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10. Stability and Reactivity

- **Reactivity:** Reacts with strong oxidizers, acids, and bases.
- **Chemical Stability:** Stable under recommended storage conditions.
- **Possibility of Hazardous Reactions:** May polymerize or react violently with strong oxidizing agents.
- **Conditions to Avoid:** Heat, flames, sparks, and incompatible substances.
- **Incompatible Materials:** Strong acids, strong bases, and oxidizing agents.
- **Hazardous Decomposition Products:** Carbon monoxide (CO), carbon dioxide (CO₂), and nitrogen oxides (NO_x).

11. Toxicological Information

- **Acute Toxicity:**
 - **Oral LD50 (Rat):** 500-2000 mg/kg
 - **Dermal LD50 (Rabbit):** Not available
 - **Inhalation LC50:** Not available
 - **Skin Irritation:** May cause mild to moderate irritation.
 - **Eye Irritation:** Causes eye irritation; may result in redness and discomfort.
 - **Respiratory Effects:** Inhalation may cause respiratory irritation, coughing, and shortness of breath.
 - **Sensitization:** May cause allergic skin reactions.
 - **Chronic Toxicity:** Long-term exposure may cause liver or kidney damage.
 - **Carcinogenicity:** Not classified as a carcinogen by IARC, NTP, or OSHA.
 - **Mutagenicity:** No known mutagenic effects.
 - **Reproductive Toxicity:** No known reproductive effects.
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12. Ecological Information

- **Toxicity:**
 - Harmful to aquatic organisms, with long-lasting effects.
 - LC50 (Fish, 96h): Not available
 - EC50 (Daphnia, 48h): Not available
 - **Persistence and Degradability:** Not readily biodegradable.
 - **Bioaccumulation:** Not expected to bioaccumulate.
 - **Mobility in Soil:** Expected to be moderately mobile.
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13. Disposal Considerations

- **Waste Disposal Methods:**
 - Dispose of contents and containers in accordance with local, regional, and national regulations.
 - Do not release into sewers or waterways.
 - **Contaminated Packaging:**
 - Rinse thoroughly before recycling or disposal.
 - Dispose of packaging in accordance with official regulations.
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14. Transport Information

- **UN Number:** UN1993
- **Proper Shipping Name:** Flammable Liquid, N.O.S. (3-Pyridinecarboxaldehyde)
- **Transport Hazard Class:** 3 (Flammable Liquids)
- **Packing Group:** III (Minor Hazard)
- **Environmental Hazards:** Not classified as a marine pollutant
- **Transport Precautions:**
 - Keep away from heat, open flames, and sparks.

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- Ensure containers are properly sealed and labeled.

15. Regulatory Information

- **TSCA (Toxic Substances Control Act):** Listed
- **REACH (EU Regulation):** Pre-registered
- **OSHA Hazard Classification:** Flammable, irritant
- **SARA 313:** Not listed
- **CERCLA Reportable Quantity:** Not listed
- **California Proposition 65:** Not listed
- **WHMIS Classification (Canada):** Class B3 (Combustible liquid), Class D2B (Toxic material causing other effects)

16. Other Information

- **Disclaimer:**
 - This document is intended for guidance only and should not be used as a substitute for professional judgment.
 - Users must ensure compliance with applicable regulations.