

## Material Safety Data Sheet (MSDS)

### Furfurylamine

**Prepared by:** Triveni Chemicals

**Revision Date:** 26-August-2025

**Version:** 1.0

### Section 1: Product Identification

- **Product Name:** Furfurylamine
- **Chemical Formula:** C<sub>5</sub>H<sub>7</sub>NO
- **CAS No:** 617-89-0
- **Recommended Use:** Used as an intermediate in organic synthesis, resin production, and chemical manufacturing.

▪ **Supplier:**

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## Section 2: Hazards Identification

- **Classification (GHS):** Acute Toxicity Oral (Category 4), Skin Irritant (Category 2), Eye Irritant (Category 2A).
- **Signal Word:** Warning
- **Hazard Statements:**
  - Harmful if swallowed
  - Causes skin irritation
  - Causes serious eye irritation
- **Precautionary Statements:**
  - Avoid contact with skin and eyes
  - Do not ingest
  - Wear protective gloves and eye protection
  - Wash hands thoroughly after handling

## Section 3: Composition / Information on Ingredients

- **Chemical Name:** Furfurylamine
- **Synonyms:** 2-Furfurylamine, Furan-2-ylmethylaniline

- **CAS Number:** 617-89-0
- **Concentration:** >95%

## Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms occur, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek immediate medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

## Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, carbon dioxide (CO<sub>2</sub>).
- **Specific Hazards:** Emits toxic fumes of carbon oxides and nitrogen oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

## Section 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid inhalation and skin/eye contact. Ensure proper ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Absorb with inert material (sand, earth). Collect in suitable container for proper disposal.

## Section 7: Handling and Storage

- **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use in well-ventilated areas.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Protect from light and heat.

## Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** Not specifically established for Furfurylamine.
- **Engineering Controls:** Ensure adequate ventilation and local exhaust systems.
- **Personal Protective Equipment:** Gloves, protective goggles, lab coat, respirator if exposure limits are exceeded.

## Section 9: Physical and Chemical Properties

- **Appearance:** Colorless to yellow liquid
- **Odor:** Amine-like odor
- **Boiling Point:** 145 °C
- **Flash Point:** 59 °C (closed cup)
- **Solubility:** Miscible with water, soluble in organic solvents
- **Molecular Weight:** 97.11 g/mol

## Section 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Strong oxidizing agents, acids, and acid chlorides.
- **Hazardous Decomposition Products:** Carbon oxides and nitrogen oxides under fire conditions.

## Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Harmful if swallowed. Causes skin and eye irritation. May cause respiratory irritation.
- **Chronic Effects:** Prolonged exposure may affect liver, kidney, and central nervous system.

## Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life with long-lasting effects.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low potential for bioaccumulation.

## Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Avoid release into the environment.

## Section 14: Transport Information

- **UN Number:** UN 2526
- **Proper Shipping Name:** Amines, liquid, corrosive, n.o.s. (Furfurylamine)
- **Hazard Class:** 8 (Corrosive substances)
- **Packing Group:** III

## Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance as per GHS.

## Section 16: Other Information

- **Prepared By:** Triveni Chemicals, Regulatory Affairs Department
- **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni chemicals** disclaims any liability for damage resulting from handling or contact.