

Material Safety Data Sheet (MSDS)

Furfural

CAS Number: 98-01-1

Prepared by: Triveni Chemicals

Revision Date: 25-June-2025

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Furfural

Synonyms: 2-Furaldehyde, 2-Furancarboxaldehyde

Recommended Use: Laboratory chemicals, solvents, chemical intermediate


Supplier:

Triveni Chemicals


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SECTION 2: Hazards Identification

GHS Classification:

- Acute toxicity, oral (Category 4), H302
- Skin irritation (Category 2), H315
- Eye irritation (Category 2A), H319
- Specific target organ toxicity – single exposure (Category 3), H335
- Flammable liquids (Category 4), H227

Signal Word: *Warning*

Hazard Statements:

- H227: Combustible liquid
- H302: Harmful if swallowed
- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation

Precautionary Statements:

- P210: Keep away from heat/sparks/open flames
- P264: Wash hands thoroughly after handling
- P280: Wear protective gloves/eye protection
- P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

- P337+P313: If eye irritation persists: Get medical advice/attention

SECTION 3: Composition/Information on Ingredients

Component	CAS No.	Content
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Furfural	98-01-1	≥98%
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SECTION 4: First-Aid Measures

- **Inhalation:** Move person to fresh air. 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.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

SECTION 5: Firefighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, foam

Specific Hazards: Vapors may form explosive mixtures with air

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Protective Equipment: Use self-contained breathing apparatus (SCBA) and protective clothing

SECTION 6: Accidental Release Measures

Personal Precautions: Wear suitable PPE. Ensure adequate ventilation. Avoid inhalation of vapors.

Environmental Precautions: Prevent entry into drains or surface waters

Cleanup Methods: Absorb with inert material such as sand. Dispose of according to local regulations

SECTION 7: Handling and Storage

Handling: Avoid contact with skin, eyes, and clothing. Use only in well-ventilated areas.

Storage: Store in tightly closed containers in a cool, dry, well-ventilated area away from heat and ignition sources

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits:

- ACGIH TLV: 2 ppm (7.9 mg/m³) TWA
- OSHA PEL: 5 ppm (20 mg/m³) TWA

Engineering Controls: Local exhaust ventilation recommended

Personal Protective Equipment (PPE):

- Protective gloves
- Safety goggles
- Protective clothing
- Respiratory protection if ventilation is insufficient

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Viscous,liquid
Odor	Almond-like, penetrating
Boiling Point	161-162 °C

Property	Value
Melting Point	-36 °C
Flash Point	58 °C (closed cup)
Autoignition Temperature	Not determined
Density	~1.16 g/cm ³
Solubility	Slightly soluble in water

SECTION 10: Stability and Reactivity

Stability: Stable under recommended conditions

Incompatibility: Strong oxidizers, strong bases

Decomposition Products: Carbon monoxide, carbon dioxide

Reactivity: No hazardous polymerization expected under normal use

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SECTION 11: Toxicological Information

- **Oral LD₅₀ (Rat):** 65 mg/kg
- **Eye Irritation:** Causes irritation
- **Skin Irritation:** Irritating to skin
- **Respiratory Effects:** May cause coughing, dizziness, respiratory irritation

SECTION 12: Ecological Information

- **Biodegradability:** Readily biodegradable
- **Aquatic Toxicity:** Harmful to aquatic organisms in high concentrations
- **Bioaccumulation:** Low potential

SECTION 13: Disposal Considerations

Dispose of in accordance with local, regional, and national regulations. Avoid release to the environment.

SECTION 14: Transport Information

- **UN Number:** 1199

- **Proper Shipping Name:** Furfural
- **Hazard Class:** 6.1 (Toxic substances)
- **Packing Group:** III

SECTION 15: Regulatory Information

- TSCA listed (US)
- Complies with MSIHC Rules (India)
- Not listed under REACH SVHC

SECTION 16: Other Information

Prepared By: Triveni Chemicals, Regulatory Affairs Department

Disclaimer:

The information above is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under their actual conditions of use. **Triveni Chemicals** disclaims any liability for damage resulting from handling or contact.