

CHEMICAL WITHOUT BORDERS-POWERED BY INDIA

CIN No.: U24100GJ2010PTC060594 GST No.: 24AADCT5202F1ZU

MSME No: UDYAM-GJ-25-0009026

ISO 9001:2015 | QMS/NAB-C21601/1645

Material Safety Data Sheet (MSDS)

Ethyl Formate

CAS Number: 109-94-4

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: Ethyl Formate
- Synonyms: Formic acid ethyl ester
- Recommended Use: Laboratory chemicals, solvent, flavoring agent
- Supplier:

Triveni Chemicals

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SECTION 2: Hazards Identification

GHS Classification:

- o Flammable liquid (Category 2), H225
- Acute toxicity, Oral (Category 4), H302
- Eye irritation (Category 2A), H319
- Specific target organ toxicity single exposure (Category 3), H335
- Signal Word: Danger
- Hazard Statements:
 - H225: Highly flammable liquid and vapor
 - H302: Harmful if swallowed
 - H319: Causes serious eye irritation
 - H335: May cause respiratory irritation

Precautionary Statements:

- P210: Keep away from heat/sparks/open flames/hot surfaces no smoking
- P261: Avoid breathing vapors
- P264: Wash skin thoroughly after handling
- P271: Use only outdoors or in a well-ventilated area
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P301+P312: IF SWALLOWED: Call a POISON CENTER or 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
- o P337+P313: If eye irritation persists: Get medical advice/attention

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- P370+P378: In case of fire: Use dry chemical, CO₂, water spray, or alcoholresistant foam
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations

SECTION 3: Composition/Information on Ingredients

Component CAS No. Concentration

Ethyl Formate 109-94-4 ≥99%

SECTION 4: First Aid Measures

- **Inhalation**: Move to fresh air. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
- **Skin Contact**: Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation develops.
- **Eye Contact**: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
- **Ingestion**: Rinse mouth with water. Do NOT induce vomiting. Seek immediate medical attention.

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SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical, carbon dioxide (CO₂).
- **Specific Hazards**: Vapors may form explosive mixtures with air. Containers may rupture in a fire.
- **Protective Equipment**: Firefighters should wear self-contained breathing apparatus and full protective gear.

SECTION 6: Accidental Release Measures

- **Personal Precautions**: Ensure adequate ventilation. Remove all ignition sources. Wear appropriate personal protective equipment.
- **Environmental Precautions**: Prevent further spillage if safe to do so. Do not allow product to enter drains.
- **Methods for Cleaning Up**: Absorb with inert material (e.g., sand, vermiculite) and place in a chemical waste container. Dispose of according to local regulations.

SECTION 7: Handling and Storage

• **Handling**: Avoid contact with skin and eyes. Avoid inhalation of vapors or mist. Keep away from ignition sources. Provide adequate ventilation.

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• **Storage**: Store in a cool, dry, well-ventilated place. Keep container tightly closed and away from heat and open flames.

SECTION 8: Exposure Controls/Personal Protection

- **Engineering Controls**: Provide adequate local exhaust ventilation.
- Personal Protective Equipment:
 - Eye/Face Protection: Safety goggles
 - o Skin Protection: Protective gloves and protective clothing
 - Respiratory Protection: Use suitable respiratory equipment if ventilation is insufficient
 - Hygiene Measures: Wash hands and face after handling. Do not eat, drink, or smoke while working with this material.

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Colorless liquid
Odor	Rum-like, pleasant odor
Density	~0.92 g/cm³ at 20 °C
Melting Point	-83 °C



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Property	Value
Boiling Point	54 °C
Flash Point	-20 °C (closed cup)
Solubility in Water	Miscible
Partition Coefficient (n-octanol/water) 1.5 at 25 °C
Autoignition Temperature	455 °C

SECTION 10: Stability and Reactivity

- Chemical Stability: Stable under recommended storage conditions.
- **Conditions to Avoid**: Heat, flames, sparks, static discharge.
- **Incompatible Materials**: Strong oxidizing agents, acids, bases.
- Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, irritating fumes.

SECTION 11: Toxicological Information

- Acute Toxicity:
 - Oral LD₅₀ (Rat): 1700 mg/kg
- Skin Corrosion/Irritation: May cause mild skin irritation
- Serious Eye Damage/Irritation: Causes serious eye irritation
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- Respiratory or Skin Sensitization: Not classified
- Germ Cell Mutagenicity: Not classified
- Carcinogenicity: Not classified
- Reproductive Toxicity: Not classified
- Specific Target Organ Toxicity Single Exposure: May cause respiratory irritation
- Specific Target Organ Toxicity Repeated Exposure: Not classified
- Aspiration Hazard: Not classified

SECTION 12: Ecological Information

- Aquatic Toxicity: Harmful to aquatic life
- Persistence and Degradability: Readily biodegradable
- Bioaccumulative Potential: Low
- Mobility in Soil: Expected to be highly mobile
- Other Adverse Effects: Avoid uncontrolled release into the environment

SECTION 13: Disposal Considerations

Dispose of contents/container in accordance with local, regional, national, or international regulations. Avoid release to the environment.

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SECTION 14: Transport Information

- UN Number: UN1190
- UN Proper Shipping Name: Ethyl formate
- Transport Hazard Class: 3 (Flammable liquid)
- Packing Group: II
- Environmental Hazards: Not applicable
- Special Precautions for User: Keep away from ignition sources

SECTION 15: Regulatory Information

- Safety, Health, and Environmental Regulations:
 - Listed on TSCA (USA), EINECS/ELINCS (EU)
 - 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.

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