

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)

Thiophenol

Revision Date: 22-September-2025

Version: 1.0

Section 1: Product Identification

• Product Name: Thiophenol

• Chemical Formula: C6H6S

• CAS No: 108-98-5

• Synonyms: Benzenethiol; Phenyl mercaptan

Recommended Use: Laboratory chemical; intermediate in organic synthesis.

Section 2: Hazards Identification

- Classification (GHS): Flammable liquids (Category 3); Acute toxicity, Oral (Category 3); Acute toxicity, Inhalation (Category 3); Skin corrosion/irritation (Category 1B); Serious eye damage (Category 1).
- Signal Word: Danger
- Hazard Statements:
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- Toxic if swallowed or inhaled
- Causes severe skin burns and eye damage
- Flammable liquid and vapor
- Keep away from heat/sparks/open flames. No smoking
- Wear protective gloves, protective clothing, eye and face protection
- IF INHALED: Remove to fresh air and immediately call a POISON CENTER/doctor

Section 3: Composition / Information on Ingredients

• Concentration: 100%

Section 4: First Aid Measures

- Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration. Immediately call a POISON CENTER/doctor.
- **Skin Contact:** Remove contaminated clothing. Rinse skin with plenty of water/shower for at least 15 minutes. Get immediate medical attention.
- Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get immediate medical attention.
- Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Dry chemical, alcohol-resistant foam, carbon dioxide (CO2); water spray.
- **Specific Hazards:** Flammable liquid and vapor. Vapors are heavier than air and may travel to ignition source. Emits toxic fumes of sulfur oxides and carbon oxides when burning.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective clothing.

Section 6: Accidental Release Measures

- **Personal Precautions:** Evacuate area. Use personal protective equipment. Eliminate ignition sources. Ensure adequate ventilation. Avoid breathing vapors.
- Environmental Precautions: Prevent entry into drains and waterways. Very toxic to aquatic life.
- Cleanup Methods: Absorb spill with inert material (sand, earth). Collect into suitable container for disposal. Clean contaminated surface thoroughly.

Section 7: Handling and Storage

• **Handling:** Handle in fume hood. Avoid inhalation of vapors. Avoid contact with skin and eyes. Ground/bond containers. Keep away from ignition sources.

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

Section 8: Exposure Controls / Personal Protection

- Exposure Limits: OSHA PEL: 0.1 ppm (0.5 mg/m³) TWA.
- Engineering Controls: Use only in fume hood with adequate ventilation.
- **Personal Protective Equipment:** Chemical-resistant gloves, impervious clothing, safety goggles/face shield, respirator with organic vapor cartridge if exposure limits are exceeded.

Section 9: Physical and Chemical Properties

• Appearance: Colorless to pale yellow liquid

• Odor: unpleasant

• Boiling Point: 169 °C

• Flash Point: 49 °C (closed cup)

• Solubility: Slightly soluble in water; miscible with ethanol, ether, chloroform

• Molecular Weight: 110.18 g/mol

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Section 10: Stability and Reactivity

- Stability: Stable under recommended storage conditions.
- Incompatible Materials: Strong oxidizing agents, bases, metals.
- Hazardous Decomposition Products: Carbon oxides, sulfur oxides under fire conditions.

Section 11: Toxicological Information

- Routes of Exposure: Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Toxic if swallowed or inhaled. Causes severe burns to skin and eyes. May cause respiratory irritation.
- **Chronic Effects:** Prolonged exposure may cause damage to liver, kidneys, blood system. Suspected mutagenicity based on animal data.

Section 12: Ecological Information

- Ecotoxicity: Very toxic to aquatic life.
- Persistence and Degradability: May degrade slowly in the environment.
- Bioaccumulative Potential: High potential due to lipophilicity.

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Section 13: Disposal Considerations

• Dispose of contents/container in accordance with local/regional/national regulations. Do not release into the environment. Incinerate in chemical waste facility.

Section 14: Transport Information

• UN Number: UN2337

• Proper Shipping Name: Thiophenol

• Hazard Class: 6.1 (3)

• Packing Group: I

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.

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Section 16: Other Information

• **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.



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