

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)

Allyl Isothiocyanate

Prepared by: Triveni Chemicals Revision Date: 26-August-2025

Version: 1.0

Section 1: Product Identification

• Product Name: Allyl Isothiocyanate

• Chemical Formula: C4H5NS

• CAS No: 57-06-7

• Recommended Use: Used as a flavoring agent, in pest control, and chemical synthesis.

Supplier:

Triveni Chemicals

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Section 2: Hazards Identification

- Classification (GHS): Flammable Liquid (Category 3), Acute Toxicity Oral (Category 3), Skin Corrosive (Category 1B), Eye Damage (Category 1).
- Signal Word: Danger
- Hazard Statements:
 - Flammable liquid and vapor
 - Toxic if swallowed
 - Causes severe skin burns and eye damage
 - May cause respiratory irritation
- Precautionary Statements:
 - Keep away from heat, sparks, open flames, and hot surfaces
 - Do not breathe vapors
 - Wear protective gloves, protective clothing, and eye/face protection
 - Wash hands thoroughly after handling

Section 3: Composition / Information on Ingredients

- Chemical Name: Allyl Isothiocyanate
- Synonyms: Mustard oil, Volatile mustard oil

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• CAS Number: 57-06-7

• Concentration: >95%

Section 4: First Aid Measures

- Inhalation: Remove person to fresh air. Seek immediate medical attention.
- **Skin Contact:** Immediately wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice immediately.
- Eye Contact: Rinse cautiously with water for several minutes. Seek immediate medical attention.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek immediate medical advice.

Section 5: Fire-Fighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide (CO2).
- **Specific Hazards:** Vapors may form explosive mixtures with air. Emits toxic fumes of nitrogen oxides, sulfur oxides, and carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

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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 only in well-ventilated areas. Keep away from ignition sources.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Protect from heat, sparks, and direct sunlight.

Section 8: Exposure Controls / Personal Protection

- Exposure Limits: OSHA PEL: 0.02 ppm (8h TWA)
- Engineering Controls: Ensure adequate ventilation and local exhaust systems.
- **Personal Protective Equipment:** Gloves, protective goggles, lab coat, respirator if exposure limits are exceeded.

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Section 9: Physical and Chemical Properties

• Appearance: Colorless to pale yellow liquid

• Odor: Pungent, mustard-like odor

• Boiling Point: 150-152 °C

• Flash Point: 45 °C (closed cup)

• Solubility: Slightly soluble in water; soluble in ethanol and organic solvents

• Molecular Weight: 99.15 g/mol

Section 10: Stability and Reactivity

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

Section 11: Toxicological Information

- Routes of Exposure: Inhalation, ingestion, skin and eye contact.
- Acute Effects: Causes severe irritation, burns, and respiratory distress.

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• **Chronic Effects:** Prolonged exposure may cause lung damage, gastrointestinal disorders, and dermatitis.

Section 12: Ecological Information

- Ecotoxicity: Harmful to aquatic organisms with potential long-term effects.
- **Persistence and Degradability:** May be biodegradable but with potential environmental hazard.
- Bioaccumulative Potential: Moderate 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 1545

• Proper Shipping Name: Allyl isothiocyanate

• Hazard Class: 6.1 (Toxic substances)

Packing Group: II

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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.

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