

Material Safety Data Sheet (MSDS)

Piperonal

CAS Number: 120-57-0

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: Piperonal

Synonyms: Heliotropin, 3,4-Methylenedioxybenzaldehyde

Recommended Use: Fragrance ingredient, flavoring agent, chemical intermediate


Supplier:

Triveni Chemicals


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SECTION 2: Hazards Identification

GHS Classification:

- Skin sensitization (Category 1), H317
- Eye irritation (Category 2B), H320

Signal Word: *Warning*

Hazard Statements:

- H317: May cause an allergic skin reaction
- H320: Causes eye irritation

Precautionary Statements:

- P261: Avoid breathing dust or vapors
- P272: Contaminated work clothing should not be allowed out of the workplace
- P280: Wear protective gloves/eye protection
- P302+P352: IF ON SKIN: Wash with plenty of soap and water
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention

SECTION 3: Composition/Information on Ingredients

Component	CAS No.	Content
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Piperonal	120-57-0	≥99%
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SECTION 4: First-Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical advice if irritation develops.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek medical attention if irritation develops.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Seek medical advice if unwell.

SECTION 5: Firefighting Measures

Suitable Extinguishing Media: Dry chemical, carbon dioxide, foam

Specific Hazards: Vapors may form explosive mixtures with air

Protective Equipment: Wear SCBA and full protective clothing

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SECTION 6: Accidental Release Measures

Personal Precautions: Wear gloves and goggles. Avoid breathing dust. Provide adequate ventilation.

Environmental Precautions: Prevent entry into drains or waterways

Cleanup Methods: Sweep up carefully, avoid dust formation, place in containers for disposal according to local regulations

SECTION 7: Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Use in a well-ventilated area. Avoid breathing dust.

Storage: Store tightly closed in a cool, dry, well-ventilated place away from ignition sources

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits: Not established

Engineering Controls: General ventilation recommended

Personal Protective Equipment (PPE):

- Protective gloves
- Safety goggles
- Protective clothing

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	White crystalline solid
Odor	Floral, reminiscent of heliotrope
Boiling Point	263 °C
Melting Point	35–39 °C
Flash Point	93 °C (closed cup)

Property	Value
Autoignition Temperature	Not determined
Density	~1.2 g/cm ³
Solubility	soluble in water

SECTION 10: Stability and Reactivity

Stability: Stable under normal storage conditions

Incompatibility: Strong oxidizers

Decomposition Products: Carbon monoxide, carbon dioxide

Reactivity: No hazardous polymerization expected

SECTION 11: Toxicological Information

- **Oral LD₅₀ (Rat):** ~2700 mg/kg
- **Skin Effects:** May cause irritation or sensitization
- **Eye Effects:** Causes mild to moderate irritation
- **Respiratory Effects:** Dust may cause mild irritation

SECTION 12: Ecological Information

- **Biodegradability:** Expected to be readily biodegradable
- **Aquatic Toxicity:** Low hazard
- **Bioaccumulation:** Low potential

SECTION 13: Disposal Considerations

Dispose of product and container according to local, regional, and national regulations. Avoid release to the environment.

SECTION 14: Transport Information

- **UN Number:** Not regulated
- **Proper Shipping Name:** Piperonal
- **Hazard Class:** Not applicable
- **Packing Group:** Not applicable

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.