

Safety Data Sheet (MSDS)

- Isoeugenol

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards) **Revision**

Date: 22 FEB 2026 **Product Name:** Isoeugenol | **CAS No.:** 97-54-1 | **Product Number:** IE-20260222
| **Brand:** SIGALD

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifiers

- Synonyms: 2-Methoxy-4-(1-propenyl)phenol; 1-Hydroxy-2-methoxy-4-propenylbenzene
- Chemical Formula: C₁₀ H₁₂O₂ | Molecular Weight: 164.20 g/mol

1.2 Details of the supplier of the safety data sheet

- Company: NEWAY SINOPHC TECH. LIMITED
- Address: RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
- Telephone: +86-021-50350029 | Fax: +86-021-50350029

1.3 Emergency telephone

- Emergency Phone #: +86-021-50350029 (CHEMTREC)

1.4 Relevant Identified Uses and Uses Advised Against

- **Identified Uses:** Fragrance & flavor raw material; cosmetic ingredient; pharmaceutical intermediate; antioxidant; synthesis raw material for vanillin.
- **Uses Advised Against:** Not for direct oral consumption; avoid use in products for infants and young children; do not mix with strong oxidizers or store in unventilated areas.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Skin Irritation (Category 2)
- Eye Irritation (Category 2A)
- Skin Sensitization (Category 1)
- Specific Target Organ Toxicity - Single Exposure (Respiratory Tract) (Category 3)
- Hazardous to the Aquatic Environment - Acute (Category 2)

2.2 GHS Label Elements

- **Hazard Pictogram:** Exclamation Mark ()

- **Signal Word:** WARNING

• Hazard Statements:

- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H319: Causes serious eye irritation
- H335: May cause respiratory irritation
- H401: Toxic to aquatic life

• Precautionary Statements:

- P261, P264, P271, P272, P273, P280
- P302+P352, P304+P340, P305+P351+P338
- P312, P333+P313, P337+P313, P362
- P501

2.3 Physical and Chemical Hazards

- Combustible liquid (Flash Point >100°C). Vapors may form flammable mixtures with air at high temperatures.
- May undergo slow oxidation in air and light, forming dark-colored polymeric substances.

2.4 Health Hazards



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- **Acute:** Causes irritation to skin, eyes, and respiratory tract. May cause coughing or shortness of breath if inhaled in high concentrations.
- **Chronic:** Repeated exposure may lead to allergic contact dermatitis. No known carcinogenic or reproductive toxicity.

2.5 Environmental Hazards

- Toxic to fish and aquatic invertebrates. Readily biodegradable, but acute toxicity requires careful handling to prevent environmental release.

SECTION 3: Composition/Information on Ingredients

- **Substance / Mixture:** Pure substance (predominantly trans-isomer)
- **Active Ingredient:** Isoeugenol (CAS 97-54-1), Concentration: $\geq 99.0\%$ (w/w)
- **Impurities:** Eugenol ($\leq 0.5\%$), BHT ($\leq 0.01\%$, stabilizer)

SECTION 4: First Aid Measures

- **Inhalation:** Remove to fresh air. If breathing is difficult, provide oxygen. Seek medical attention if symptoms persist.
- **Skin Contact:** Remove contaminated clothing. Wash skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation or rash develops.
- **Eye Contact:** Rinse eyes continuously with water for at least 15 minutes, holding eyelids open. Remove contact lenses if present. Seek immediate medical attention.
- **Ingestion:** Do NOT induce vomiting. Rinse mouth with water. Give water to drink if conscious. Seek immediate medical attention.

SECTION 5: Firefighting Measures

- **Suitable Extinguishing Media:** Dry chemical, CO₂, alcohol-resistant foam, water spray (for cooling only).
- **Hazards in Fire:** Combustion may produce carbon monoxide and irritating fumes.
- **Firefighter Precautions:** Wear self-contained breathing apparatus (SCBA) and full protective gear. Fight fire from upwind. Cool containers with water spray until fire is out.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear nitrile gloves, safety goggles, and a respirator if vapors are present. Ensure adequate ventilation.
- **Containment and Cleanup:** Absorb spill with inert material (sand, diatomaceous earth). Collect in a sealed container for disposal. Do not flush into drains or waterways.

SECTION 7: Handling and Storage

- **Handling:** Avoid contact with skin and eyes. Use in a well-ventilated area. Do not generate dust or mist. Wash hands thoroughly after handling.
- **Storage:** Store in a cool, dry, dark place ($\leq 25^{\circ}\text{C}$) in a tightly sealed container. Keep away from heat, sparks, and open flames. Store separately from strong oxidizers and acids.
- **Shelf Life:** 24 months unopened when stored as directed.

SECTION 8: Exposure Controls/Personal Protection

- **Exposure Limits:** TWA: 5 ppm (ACGIH).
- **Engineering Controls:** Local exhaust ventilation is recommended.
- **PPE:**
 - **Eyes:** Chemical splash goggles.
 - **Skin:** Nitrile gloves ($\geq 0.4\text{mm}$), chemical-resistant apron.
 - **Respiratory:** Organic vapor cartridge respirator if ventilation is insufficient.

SECTION 9: Physical and Chemical Properties

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Property	Value	Unit
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Property	Value	Unit
Physical State	Clear liquid	-
Color	Pale yellow	-
Odor	Characteristic clove-like, woody-	
Melting Point	-9.0	°C
Boiling Point	262.4	°C
Flash Point	128	°C (Closed Cup)
Relative Density (20/20°C)	1.086	-
Refractive Index (20°C)	1.5751	-
Water Solubility	Slightly soluble (2.5 g/L)	g/L
Vapor Pressure (25°C)	0.001	hPa
Viscosity (25°C)	12.5	mPa ·s

SECTION 10: Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Hazardous Reactions:** Reacts with strong oxidizing agents, strong acids, and halogens.
- **Conditions to Avoid:** Heat, direct sunlight, prolonged exposure to air.
- **Decomposition Products:** CO, CO₂, aromatic smoke.

SECTION 11: Toxicological Information

- **Acute Oral LD₅₀ (Rat):** 2,680 mg/kg
- **Acute Dermal LD₅₀ (Rabbit):** >5,000 mg/kg
- **Skin Irritation:** Moderate (Category 2)
- **Eye Irritation:** Moderate (Category 2A)
- **Skin Sensitization:** Positive (Category 1)
- **Carcinogenicity:** IARC Group 3 (Not classifiable as to its carcinogenicity to humans)

SECTION 12: Ecological Information

- **Fish LC₅₀ (96h):** 3.2 mg/L
- **Daphnia EC₅₀ (48h):** 2.8 mg/L
- **Biodegradability:** Readily biodegradable (>80% in 28 days)
- **Bioaccumulation:** Low (Log Kow = 2.9)

SECTION 13: Disposal Considerations

Dispose of waste and contaminated packaging through a licensed hazardous waste disposal contractor in accordance with local, national, and international regulations. Do not release into the environment.

SECTION 14: Transport Information

- **UN Number:** 3082
- **UN Proper Shipping Name:** Environmentally hazardous substances, liquid, n.o.s. (Isoeugenol)
- **Class:** 9
- **Packing Group:** III
- **Marine Pollutant:** Yes
- **Transport Precautions:** Protect from light and heat. Do not transport with foodstuffs or strong oxidizers.

SECTION 15: Regulatory Information

- **International:** REACH (Registered), TSCA (Listed), FDA (GRAS for flavor use).
- **China:** Complies with GB standards for food additives and cosmetic ingredients.

SECTION 16: Other Information



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