



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

## Safety Data Sheet (MSDS)

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

### Cinnamyl Cinnamate (122-69-0)

Revision Date: 20 FEB 2026

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

##### 1.1 Product Identifiers

- Product Name: Cinnamyl Cinnamate
- Product Number: CC-20260220
- Brand: SIGALD
- CAS-No.: 122-69-0
- Synonyms: Cinnamic acid cinnamyl ester; Dodecyl phenol ethoxylate
- EINECS/EC-No.: 204-569-6

##### 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
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##### 1.3 Emergency telephone

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

##### 1.4 Relevant Identified Uses and Uses Advised Against

- Identified Uses: Fragrance raw material (perfume, cosmetic, soap); cosmetic fixative; food flavor adjuvant (baked food, candy); industrial intermediate for fine chemical synthesis.
- Uses Advised Against: Not for direct oral consumption in large quantities; avoid use in high-temperature open flame environments without protection; not for medical injection use.

#### SECTION 2: Hazards Identification

| Summary of Emergency Measures | White crystalline powder with sweet balsamic floral-cinnamic odor. Combustible solid; may cause mild skin and eye irritation in sensitive individuals; may cause mild respiratory irritation if inhaled as dust in high concentration. After inhalation: Move to fresh air and rest. In case of skin contact: Rinse with plenty of water for 5 minutes. After eye contact: Rinse with plenty of water for 10 minutes; consult a doctor if irritation persists. After swallowing: Rinse mouth with water, do not induce vomiting; seek medical advice if unwell. Keep away from fire and heat sources. | |---|

##### 2.1 GHS Classification

- Combustible solids (Category 1)
- Skin irritation (Category 2, mild, sensitive individuals)
- Serious eye irritation (Category 2, mild, sensitive individuals)
- Specific target organ toxicity - single exposure (respiratory tract irritation, Category 3, dust inhalation)



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### 2.2 GHS Label Elements

- Hazard Pictogram: (Exclamation mark)
- Signal Word: **Warning**
- Hazard Statements:
  - H228: Combustible solid
  - H315: May cause skin irritation
  - H319: May cause serious eye irritation
  - H335: May cause respiratory irritation
- Precautionary Statements:
  - P210: Keep away from heat, sparks, open flames and hot surfaces. No smoking.
  - P261: Avoid breathing dust/fumes/gas/mist/vapors/spray
  - P264: Wash skin thoroughly after handling
  - P280: Wear protective gloves/eye protection/face protection
  - P302+P352: If on skin: Wash with plenty of water and soap
  - P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
  - P304+P340: If inhaled: Remove person to fresh air and keep comfortable for breathing
  - P312: Call a POISON CENTER or doctor/physician if you feel unwell
  - P362+P364: Take off contaminated clothing and wash it before reuse
  - P501: Dispose of contents/container to an approved waste disposal plant

2.3 Physical and Chemical Hazards Combustible solid (melting point 44-48°C, molten state is combustible liquid); dust may form combustible mixtures with air and cause dust explosion under strong ignition; stable under recommended storage conditions, no hazardous decomposition at normal temperature.

### 2.4 Health Hazards

- Acute: High-concentration dust inhalation causes mild cough and throat irritation; skin contact may cause slight redness in sensitive individuals; eye contact may cause mild redness and tearing in sensitive individuals; accidental swallowing causes mild nausea and gastrointestinal discomfort.
- Chronic: Prolonged repeated skin contact may cause mild dryness in sensitive individuals; long-term inhalation of low-concentration dust has no known persistent adverse effects; no carcinogenic, mutagenic or reproductive toxic effects in occupational exposure limits.

2.5 Environmental Hazards Low acute toxicity to aquatic organisms (Zebrafish 96h LC<sub>50</sub> = 1000-1500 mg/L); fully biodegradable in natural environment (BOD<sub>5</sub> /COD = 0.75); very low bioaccumulation potential; avoid direct large-scale discharge into water bodies or soil.

2.6 Other Hazards Dust is slightly irritating to the upper respiratory tract; molten state may cause mild thermal burns on contact with skin; no other additional hazards identified.

### SECTION 3: Composition/Information on Ingredients



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- Substance / Mixture: **Pure Substance** | Component | CAS-No. | Formula | Concentration (w/w) | Classification | |---|---|---|---|---| | Cinnamyl Cinnamate | 122-69-0 | C<sub>18</sub> H<sub>16</sub> O<sub>2</sub> | ≥98.0% (Fragrance/Cos ≥99.0%) | H228, H315, H319, H335 |

### SECTION 4: First Aid Measures

#### 4.1 Description of First-Aid Measures

- If Inhaled: Immediately move the victim to fresh, well-ventilated air. Loosen tight clothing to ensure unobstructed breathing. Let the victim rest in a comfortable position. No special treatment is needed if no discomfort; call a doctor if cough or chest tightness persists.
- In Case of Skin Contact: Immediately remove contaminated clothing and gloves. Rinse the affected skin with plenty of running water for at least 5 minutes. Pat dry gently; apply mild moisturizer if dryness occurs. Seek medical attention if redness or itching appears.
- In Case of Eye Contact: Hold the eyelids open and rinse the eyes continuously with clean running water for at least 10 minutes, flushing the entire eye surface. Do not rub the eyes. Remove contact lenses only if it can be done easily. Consult a doctor if irritation or blurred vision persists.
- If Swallowed: Rinse the mouth with plenty of clean water (do not swallow). Do not induce vomiting (risk of aspiration). If the victim is conscious, drink a small amount of water to dilute the substance. Call a POISON CENTER or doctor if gastrointestinal discomfort occurs.
- Molten Contact: Flush affected area with cold water for at least 15 minutes to cool; seek medical attention for thermal burn symptoms.

#### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- Acute: Mild skin/eye irritation (sensitive individuals only), slight respiratory tract irritation (dust inhalation), mild gastrointestinal discomfort; all symptoms are reversible with prompt treatment.
- Delayed: Transient skin dryness or slight peeling (1-2 days after contact in sensitive individuals); no long-term permanent organ damage reported.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed No specific antidote available; treat symptomatically. Seek urgent medical attention only for accidental large-dose swallowing, severe persistent eye irritation in sensitive individuals or thermal burns from molten state.

### SECTION 5: Firefighting Measures

#### 5.1 Extinguishing Media

- Suitable: Carbon dioxide (CO<sub>2</sub>), dry chemical powder, foam, water spray (for cooling containers only).
- Unsuitable: Do not use direct high-pressure water jet on burning solid (may disperse dust and cause explosion).

5.2 Special Hazards Arising from the Substance or Mixture Combustible solid; burning produces mild toxic smoke (carbon monoxide, aromatic hydrocarbon vapors); dust may form explosive

mixtures with air; molten state may spread and intensify fire; no explosive decomposition during combustion.

### 5.3 Advice for Firefighters

- Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective gear (fire-resistant suit, chemical-resistant gloves, goggles, dust mask).
- Keep a safe distance from the fire scene; cool the burning and surrounding containers with water spray to prevent thermal expansion and rupture.
- Prevent fire-extinguishing wastewater from entering municipal sewers, rivers or other water bodies.
- Extinguish the fire from the upwind direction; eliminate all ignition sources in the fire scene; avoid creating dust during fire fighting.

## SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures Wear basic personal protective equipment (chemical-resistant goggles, nitrile rubber gloves, dust mask). Eliminate all ignition sources (turn off electrical equipment, no smoking) in the spill area. Ensure good ventilation; evacuate non-essential personnel to a safe upwind area. Avoid inhaling dust and direct skin/eye contact; do not sweep the spilled powder (to prevent dust dispersion).

6.2 Environmental Precautions Prevent the spilled powder from entering sewers, storm drains, rivers, lakes or soil; cover the spilled powder with plastic film to avoid wind dispersion.

### 6.3 Methods and Materials for Containment and Cleaning Up

- Small Spill: Collect the spilled powder with a clean plastic spatula into a sealed HDPE container with hazard labels; wipe the spill area with ethanol and dispose of the waste cloth in the same container.
  - Large Spill: Contain the powder with inert materials (sand, vermiculite); collect with a dust-free vacuum cleaner (explosion-proof) into sealed HDPE drums; clean the remaining powder with a damp cloth and dispose of all waste as hazardous waste.
- 6.4 Reference to Other Sections For waste disposal, see Section 13; for personal protection, see Section 8.

## SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling Operate in a well-ventilated area with explosion-proof electrical equipment and local dust extraction system (air exchange rate  $\geq 10$  times/hour). Wear specified PPE for all operations. Eliminate all ignition sources in the working area; no smoking, open flames or hot surfaces. Avoid generating dust; use closed transfer systems for bulk handling. Do not mix with strong oxidizing agents, strong acids or strong alkalis. Wash hands and exposed skin thoroughly with soap and water after handling; do not eat, drink or smoke in the working area. Avoid heating above melting point without closed system protection.

### 7.2 Conditions for Safe Storage

- Storage Conditions: Store in a cool, dry, well-ventilated and explosion-proof warehouse. Temperature  $\leq 25^{\circ}\text{C}$ , relative humidity  $\leq 60\%$ . Keep the container tightly sealed with a screw cap to prevent moisture absorption and dust contamination; store in original HDPE or amber glass containers (for light protection). Keep away from fire, heat sources, direct sunlight and electrical equipment.
- Incompatibilities: Strong oxidizing agents ( $\text{H}_2\text{O}_2$ ,  $\text{KMnO}_4$ , chlorine), strong mineral acids (HCl,  $\text{H}_2\text{SO}_4$ ), strong alkalis (NaOH, KOH), halogens, peroxides.
- Storage Class (TRGS 510): 11 (Combustible Solids)
- Shelf Life: **24 months (unopened, under specified storage conditions)**
- Segregation: Store separately from incompatible materials in a dedicated explosion-proof storage area with anti-leakage trays and fire-fighting equipment; keep a minimum distance of 3 meters from heat sources and ignition sources; mark clear hazard labels (combustible solid, mild eye/skin irritation) on the storage area and containers.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

- Occupational Exposure Limit (OEL) for Cinnamyl Cinnamate: TWA  $10 \text{ mg/m}^3$  (8-hour, ACGIH); STEL  $20 \text{ mg/m}^3$  (15-minute, ACGIH)
- Biological Limit Value (BLV): N/A

### 8.2 Exposure Controls

- Engineering Controls: Explosion-proof electrical equipment and lighting; local dust extraction and collection system; fire-fighting equipment ( $\text{CO}_2$  fire extinguisher, dry powder fire extinguisher) in the working area; dust concentration detection alarm (set alarm limit at  $10 \text{ mg/m}^3$ ).
- Personal Protective Equipment (PPE) - **MANDATORY for all operations:**
  - Eye/Face Protection: Chemical-resistant safety goggles for routine handling; face shield for bulk operations or spill cleanup.
  - Skin Protection: Nitrile rubber gloves (thickness  $\geq 0.30 \text{ mm}$ ), chemical-resistant apron; replace gloves immediately if damaged or contaminated.
  - Respiratory Protection: Dust mask (N95) for routine operations; full-face SCBA with dust filter for confined space or large spill emergency.
  - Other: Anti-static work shoes, fire-resistant work clothes; keep emergency eye wash station and safety shower within 10 meters of the work area.

## SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Propertiesa) Physical State: Crystalline powder/flakesb) Color: White to off-whitec) Odor: Characteristic sweet, balsamic, floral-cinnamic, mild spicy odord) Melting Point/Freezing Point:  $44\text{-}48^{\circ}\text{C}$ e) Boiling Point:  $370^{\circ}\text{C}$  ( $760 \text{ mmHg}$ );  $220^{\circ}\text{C}$  ( $10 \text{ mmHg}$ )f) Flammability (Solid/Liquid): Combustible solid (Category 1); molten state is combustible liquidg) Upper/Lower Flammability or Explosive Limits: Dust LEL:  $15 \text{ g/m}^3$ ;

UEL: N/A; Molten liquid LEL: 0.6% (v/v)h) Flash Point: 185°C (Closed Cup, molten state)i)  
Autoignition Temperature: 480°C (solid); 420°C (molten state)j) Decomposition Temperature:  
≥280°C (no hazardous decomposition)k) pH Value: Neutral (6.9-7.4, 1% ethanol solution, 25°C)l)  
Viscosity (50°C, molten): 15-20 mPa·sm) Solubility: Insoluble in water; soluble in ethanol, ether,  
chloroform, benzene, fragrance oils and most organic solventsn) Partition Coefficient (log P, n-  
octanol/water): 6.25 (25°C)o) Vapor Pressure (25°C): 0.00001 kPa (extremely low volatility)p)  
Bulk Density: 0.85-0.90 g/cm³q) Relative Vapor Density (air=1): 9.11r) Dust Explosion Hazard: Yes  
(minimum ignition energy: 100 mJ)s) Explosive Properties: No explosive properties under normal  
solid state; dust-air mixture is explosivet) Oxidizing Properties: None

9.2 Other Safety InformationNo moisture absorption at normal humidity (≤60%); easy to melt at  
high temperature (>44°C), avoid storage in high-temperature environment; excellent  
fragrance fixative performance, can prolong fragrance duration by 2-5 times in formulations;  
compatible with most fragrance, cosmetic and food raw materials under normal formulation  
conditions (pH 5.0-8.5).

## SECTION 10: Stability and Reactivity

10.1 Chemical Stability: Stable under the recommended storage and handling conditions  
(≤25°C, sealed, away from light and ignition sources); no chemical changes under normal  
industrial processing conditions (≤100°C); stable in fragrance/cosmetic/food formulations with  
pH 5.0-8.5 for 12 months.10.2 Possibility of Hazardous Reactions: No hazardous reactions under  
normal use and processing conditions; reacts slowly with strong oxidizing agents/strong  
acids/strong alkalis at high temperature (>280°C) to produce mild toxic byproducts; no  
hazardous polymerization occurs under any conditions.10.3 Conditions to Avoid: High  
temperature (>44°C, melting), direct sunlight, open flame, heat sources, contact with  
incompatible materials, dust dispersion (explosion risk).10.4 Incompatible Materials: Strong  
oxidizing agents, strong mineral acids, strong alkalis, halogens, peroxides, strong reducing  
agents.10.5 Hazardous Decomposition Products: Carbon monoxide (CO), carbon dioxide  
(CO<sub>2</sub>), aromatic hydrocarbon vapors (high-temperature decomposition/combustion); no other  
hazardous decomposition products.

## SECTION 11: Toxicological Information

### 11.1 Information on Toxicological Effects

- Acute Toxicity:
  - Oral (Rat, LD<sub>50</sub>): 3500 mg/kg (Low toxic)
  - Dermal (Rabbit, LD<sub>50</sub>): >5000 mg/kg (Very low toxic)
  - Inhalation (Rat, LC<sub>50</sub>): >2000 mg/m<sup>3</sup> (4-hour dust exposure) (Very low toxic)
- Skin Corrosion/Irritation: Rabbit 4-hour closed patch test - mild erythema in sensitive individuals (Category 2), reversible with proper treatment; no irritation in normal individuals.
- Serious Eye Damage/Irritation: Rabbit eye test - slight conjunctival redness in sensitive individuals (Category 2), reversible with prompt flushing; no irritation in normal individuals.

- Respiratory or Skin Sensitization: No sensitizing effects (human and animal tests).
- Germ Cell Mutagenicity: Ames test, chromosome aberration test - negative; no mutagenic effects.
- Carcinogenicity: IARC Classification - Group 3 (not classifiable as to carcinogenicity to humans); no carcinogenic effects in long-term animal tests.
- Reproductive Toxicity: No adverse reproductive or developmental effects in animal tests at occupational exposure doses; no teratogenic or embryotoxic effects.
- Specific Target Organ Toxicity (Repeated Exposure): 90-day repeated inhalation test - no target organ damage even at high concentration; no chronic toxic effects.
- Aspiration Hazard: Very low (solid powder, extremely low volatility).

## SECTION 12: Ecological Information

### 12.1 Toxicity

- Fish (Zebrafish, 96h LC<sub>50</sub>): 1250 mg/L (ethanol solution)
  - Daphnia (48h EC<sub>50</sub>): 1000 mg/L (ethanol solution)
  - Freshwater Algae (72h EC<sub>50</sub>): 1300 mg/L (ethanol solution)
- 12.2 Persistence and Degradability: Fully biodegradable (BOD<sub>5</sub> /COD = 0.75); degraded by microbial action in natural environment within 6-8 days; no persistent environmental residues.
- 12.3 Bioaccumulative Potential: Very low (log P=6.25, high molecular weight limits bioaccumulation); no biomagnification in the food chain.
- 12.4 Mobility in Soil: Low mobility; easily adsorbed to soil organic matter, no leaching risk to groundwater at normal use concentrations.
- 12.5 PBT/vPvB Assessment: Not classified as PBT/vPvB substances (no persistence, very low bioaccumulation, low aquatic toxicity).
- 12.6 Other Adverse Effects: No known adverse effects on soil microorganisms or terrestrial ecosystems at normal environmental concentrations; excessive discharge may cause temporary odor pollution in water bodies.

## SECTION 13: Disposal Considerations

### 13.1 Waste Treatment Methods

- Product Waste: Expired/contaminated Cinnamyl Cinnamate is classified as **hazardous waste (combustible solid, mild toxicity)**; dispose of by licensed hazardous waste treatment facilities via incineration (≥800°C) with flue gas treatment (to remove aromatic hydrocarbons). Do not discharge to the environment directly.
- Packaging Waste: Rinse packaging with a small amount of ethanol (collect rinsing waste as hazardous waste); dispose of contaminated packaging as hazardous waste; recycle clean and uncontaminated HDPE/glass packaging after thorough cleaning and testing.
- Spill Waste: Contaminated cleaning tools and waste powder are hazardous waste; collect and dispose of by licensed hazardous waste treatment companies in accordance with local regulations.
- Disposal Compliance: Comply with China HW06 (Organic Solvent Waste), EU EWC 030207, US RCRA Subtitle C (Hazardous Waste).



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### SECTION 14: Transport Information

14.1 UN Number: ADR/RID: 1325; IMDG: 1325; IATA-DGR: 1325  
14.2 UN Proper Shipping Name: ADR/RID: Combustible solids, n.o.s. (Cinnamyl Cinnamate); IMDG: Combustible solids, n.o.s. (Cinnamyl Cinnamate); IATA-DGR: Combustible solids, n.o.s. (Cinnamyl Cinnamate)  
14.3 Transport Hazard Class(es): ADR/RID: 4.1; IMDG: 4.1; IATA-DGR: 4.1  
14.4 Packaging Group: ADR/RID: III; IMDG: III; IATA-DGR: III  
14.5 Environmental Hazards: IMDG Marine Pollutant: **No**  
14.6 Special Precautions for Transport: Transport in sealed HDPE plastic drums or amber glass bottles with anti-leakage and anti-static caps; line the container with plastic film to prevent powder dispersion. Transport temperature  $\leq 30^{\circ}\text{C}$ , avoid direct sunlight, heat sources and open flames; the transport vehicle must be explosion-proof with anti-static ground wire and fire-fighting equipment. Do not transport with strong oxidizing agents, strong acids, strong alkalis or food/fragrance raw materials; transport in a dedicated compartment of Class 4.1 combustible solid transport vehicles with no mixed loading of other hazard classes. Comply with ADR/RID, IMDG Code and IATA-DGR regulations for Class 4.1 combustible solids; provide MSDS/COA for customs clearance and transport documentation.

### SECTION 15: Regulatory Information

#### 15.1 National/International Regulations

- China: Hazardous Chemicals Safety Management Regulation (Class 4.1 Combustible Solid); National Food Safety Standard (GB 2760-2021, approved as food flavor adjuvant); Cosmetic Raw Material Safety Specification (2021); Fragrance Raw Material Industrial Standard.
- EU: REACH (Annex XVII compliant, not in SVHC Candidate List); CLP (GHS Classification - Warning); Food Additive Regulation (EC 1333/2008, approved as food flavor); Cosmetic Regulation (EC 1223/2009); IFRA (International Fragrance Association) compliant; ADR/RID Class 4.1 Transport Regulation.
- US: TSCA (listed on the TSCA Inventory); FDA GRAS (Generally Recognized As Safe) for food flavor use; FDA Cosmetic Ingredient Review (CIR) approved; OSHA Hazard Communication Standard (29 CFR 1910.1200); DOT Class 4.1 Transport Regulation.
- International: ISO 9001 (Quality); ISO 14001 (Environment); FAO/WHO Food Additive Standards; IFRA Fragrance Raw Material Standards.

15.2 Additional Regulatory Requirements: Provide English MSDS/COA for customs clearance and transport; mark **Class 4.1 Combustible Solid, FOR**

**FRAGRANCE/COSMETIC/FOOD/INDUSTRIAL USE ONLY, KEEP AWAY FROM FIRE** on all product documents and packaging; comply with food/fragrance/cosmetic additive dosage limits (GB 2760, EU 1333/2008, IFRA); label products with combustible, mild eye/skin irritation and dust explosion warnings for industrial use.

### SECTION 16: Other Information

- Further Information: This MSDS complies with GB/T 16483, GB/T 17519 and GHS Rev.9 standards, and is for professional use only by trained personnel (production, storage, transport and



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disposal). Key characteristic: **Cinnamyl Cinnamate (≥98.0%) white crystalline powder, Class 4.1 combustible solid, mild skin/eye irritation in sensitive individuals, sweet balsamic floral-cinnamic odor, for fragrance raw material, cosmetic fixative, food flavor adjuvant and industrial organic synthesis use.**

- Revision Date: 20 FEB 2026

