



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)

- Amyl Cinnamal

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

Name: Amyl Cinnamal **Revision Date:** 28 FEB 2026

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

1.1 Product Identifiers

- Product Name: Amyl Cinnamal
- Synonyms: n-Amyl cinnamaldehyde; Pentyl cinnamaldehyde; α-Pentylcinnamaldehyde
- Product Number: AC-20260228
- Brand: SIGALD
- CAS-No.: 122-40-7
- MDL Number: MFCD00006856
- Formula: C₁₄H₁₈ O
- Molecular Weight: 202.29 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 and flavor industry; cosmetic raw material; household cleaning product fragrance; air freshener formulation.
- **Uses Advised Against:** Direct oral consumption in large quantities; use in infant cosmetics (0-3 years old) without approval; use as a pharmaceutical raw material.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Skin Sensitization, Category 1 (H317)
- Eye Irritation, Category 2 (H319)
- Aquatic Acute Toxicity, Category 3 (H402)
- Aquatic Chronic Toxicity, Category 3 (H412)

2.2 GHS Label Elements

- **Hazard Pictograms:** (Exclamation mark)
- **Signal Word:** Warning
- **Hazard Statements:**
 - H317: May cause an allergic skin reaction
 - H319: Causes serious eye irritation
 - H402: Harmful to aquatic life
 - H412: Harmful to aquatic life with long-term effects
- **Precautionary Statements:**
 - P261: Avoid breathing vapors/spray
 - P272: Contaminated work clothing should not be allowed out of the workplace
 - P273: Avoid release to the environment
 - P280: Wear protective gloves/eye protection/face protection
 - P302+P352: If on skin: Wash with plenty of soap and water



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- 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
- P363: Wash contaminated clothing before reuse
- P391: Collect spillage
- P501: Dispose of contents/container to an approved waste disposal plant

2.3 Physical and Chemical Hazards

Non-flammable under normal conditions; no explosive, corrosive or oxidizing hazards.

2.4 Health Hazards

- Acute: Causes serious eye irritation; may cause allergic skin reactions in sensitive individuals; inhalation of high concentration vapors may cause mild respiratory irritation.
- Chronic: No known chronic toxic effects with normal use; repeated skin contact may increase sensitization risk.

2.5 Environmental Hazards

Harmful to aquatic life with acute and long-term effects; no significant bioaccumulation potential in aquatic organisms.

2.6 Other Hazards

No additional hazards identified.

SECTION 3: Composition/Information on Ingredients

- **Substance / Mixture:** Pure substance
- **Active Ingredient:** Amyl Cinnamal (100%, CAS 122-40-7)
- **Hazardous Ingredients:** Amyl Cinnamal (only hazardous ingredient, concentration 98.0-99.0%)

SECTION 4: First Aid Measures

4.1 Description of First-Aid Measures

- **If Inhaled:** Move victim to fresh air. Keep at rest in a position comfortable for breathing. If respiratory irritation occurs, consult a doctor.
- **In Case of Skin Contact:** Immediately wash skin with plenty of soap and running water for 15 minutes. Remove contaminated clothing and wash before reuse. If rash or irritation occurs, seek medical advice.
- **In Case of Eye Contact:** Rinse eyes thoroughly with plenty of running water for 15-20 minutes. Remove contact lenses if present and easy to do. Consult a doctor immediately if irritation persists.
- **If Swallowed:** Rinse mouth with water. Do not induce vomiting. Call a poison center or doctor if gastrointestinal discomfort (nausea, vomiting) occurs.

4.2 Most Important Symptoms and Effects

- Acute: Eye redness, pain, tearing; skin rash, itching (sensitized individuals); mild cough, chest tightness (high concentration vapor inhalation).
- Delayed: Delayed skin allergic reaction (may occur 24-48 hours after contact).

4.3 Indication of Immediate Medical Attention

Seek medical attention for severe eye irritation, persistent skin allergic reaction or excessive oral ingestion.

4.4 Notes to Physician

Treat symptomatically; inform the physician of the product name and CAS number (122-40-7); note the skin sensitization potential.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- **Suitable:** Water spray, dry powder, carbon dioxide (CO₂), foam.
- **Unsuitable:** No limitations of extinguishing agents.



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5.2 Special Hazards Arising from the Substance

Combustion at high temperature may produce carbon oxides (CO, CO₂) and slight acid fumes; no other hazardous combustion products.

5.3 Advice for Firefighters

- Wear standard fire-fighting gear (helmet, fire suit, self-contained breathing apparatus) to avoid inhalation of combustion fumes.
- Cool containers with water spray if exposed to fire; fight fire from a safe distance.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions

- Wear protective gloves, chemical safety goggles and disposable face mask when cleaning up spills.
- Ensure good ventilation in the spill area; avoid inhalation of vapors.

6.2 Environmental Precautions

- Prevent spilled liquid from entering drains, sewers, rivers or other water bodies.
- Contain spillage with inert absorbent materials to avoid environmental contamination.

6.3 Methods and Materials for Containment and Cleaning Up

- **Small Spill:** Absorb with inert materials (e.g., sand, diatomaceous earth, vermiculite), transfer to a sealed container for disposal. Wipe the area with ethanol and water.
- **Large Spill:** Contain with dikes or sand barriers; pump into sealed drums for recycling or disposal. Do not flush with water directly.

6.4 Reference to Other Sections

For disposal, see Section 13.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

- Operate in a well-ventilated area; avoid breathing vapors and direct contact with skin/eyes.
- Wear personal protective equipment (PPE) as recommended in Section 8.
- Do not eat, drink or smoke during handling; wash hands and face thoroughly with soap and water after operation.
- Avoid contact with strong oxidizing agents and strong acids to prevent degradation.

7.2 Conditions for Safe Storage

- **Storage Conditions:** Store in a cool, dark, well-ventilated warehouse at 15-25°C. Keep container tightly sealed to prevent vapor loss and contamination. Avoid direct sunlight and high temperature (>30°C).
- **Incompatibilities:** Strong oxidizing agents (e.g., hydrogen peroxide, potassium permanganate), concentrated mineral acids, strong bases.
- **Storage Class (TRGS 510):** 13 (Non-Hazardous Liquids)
- **Shelf Life:** 18 months (unopened, under specified storage conditions)

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

- **Occupational Exposure Limit (OEL):** TWA: 5 ppm (41 mg/m³), China GBZ 2.1-2019; 5 ppm (8h TWA), US ACGIH

8.2 Exposure Controls

- **Engineering Controls:** Install local exhaust ventilation at operation points; use closed-loop equipment for large-scale production to reduce vapor emission.
- **Personal Protective Equipment (PPE):**
 - Eye/Face Protection: Chemical safety goggles or face shield (prevent splashing and vapor irritation)

- Skin Protection: Nitrile rubber gloves (thickness ≥ 0.11 mm), chemical-resistant protective clothing
- Respiratory Protection: Organic vapor cartridge respirator for routine handling; self-contained breathing apparatus for high-concentration vapor exposure
- Hand Protection: Nitrile rubber gloves (replace if damaged)

8.3 Hygiene Measures

- Provide eye wash and emergency shower facilities in the workplace.
- Avoid contact between contaminated hands and eyes/mouth; change contaminated clothing immediately.
- Do not reuse contaminated gloves and cleaning materials.

SECTION 9: Physical and Chemical Properties

1. Physical State: Clear liquid
2. Color: Pale yellow to light orange
3. Odor: Strong, sweet, floral (jasmine-like) fragrance
4. Boiling Point: 260-270°C
5. Flash Point: 130°C (Closed Cup)
6. Autoignition Temperature: $> 400^\circ\text{C}$
7. Refractive Index (25°C): 1.5500-1.5560
8. Relative Density (25/25°C): 0.950-0.956
9. Solubility: Soluble in ethanol, ether, propylene glycol, vegetable oil; slightly soluble in water (<0.1 g/100 mL at 25°C)
10. Vapor Pressure (25°C): < 0.01 hPa
11. Viscosity (25°C): 8-12 mPa·s
12. Acid Value: ≤ 1.0 mg KOH/g
13. Peroxide Value: ≤ 10 meq/kg
14. Decomposition Temperature: $> 200^\circ\text{C}$ (slight decomposition)

SECTION 10: Stability and Reactivity

10.1 Chemical Stability

Stable under normal storage and handling conditions (cool, dark, sealed).

10.2 Possibility of Hazardous Reactions

No hazardous reactions under normal use; no polymerization occurs.

10.3 Conditions to Avoid

High temperature ($>30^\circ\text{C}$), direct sunlight, prolonged contact with strong oxidizing agents/acids, exposure to air for a long time (may cause slight oxidation).

10.4 Incompatible Materials

Concentrated sulfuric acid, nitric acid, hydrogen peroxide, potassium permanganate, sodium hypochlorite.

10.5 Hazardous Decomposition Products

Carbon monoxide (CO), carbon dioxide (CO₂) (at high temperature combustion); slight amount of acidic oxides from oxidation.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

- **Acute Toxicity:**
 - Oral (Rat, LD₅₀): 3360 mg/kg
 - Dermal (Rabbit, LD₅₀): > 5000 mg/kg
 - Inhalation (Rat, LC₅₀): > 1000 mg/m³ (4-hour exposure, vapor)
- **Skin Corrosion/Irritation:** No skin irritation (Rabbit, 4-hour exposure)



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- **Serious Eye Damage/Eye Irritation:** Category 2, causes serious eye irritation (Rabbit, 24-hour exposure)
- **Skin Sensitization:** Category 1, may cause allergic skin reaction (Guinea pig test, positive)
- **Respiratory Sensitization:** No respiratory sensitization effects
- **Germ Cell Mutagenicity:** Negative (Ames test, in vitro)
- **Carcinogenicity:** Not classified as carcinogenic (IARC Group 3)
- **Reproductive Toxicity:** No reproductive toxicity (Rat test, normal dosage)
- **Specific Target Organ Toxicity:** No target organ toxicity with normal exposure

SECTION 12: Ecological Information

12.1 Toxicity

- Fish (Zebrafish, LC₅₀): 32 mg/L (96-hour exposure)
- Daphnia (EC₅₀): 18 mg/L (48-hour exposure)
- Algae (EC₅₀): 45 mg/L (72-hour exposure)

12.2 Persistence and Degradability

Biodegradable (BOD₅ /COD = 0.58) in natural aquatic environments; degradation rate > 65% in 28 days.

12.3 Bioaccumulative Potential

Low bioaccumulation potential (BCF < 200, fish test); no biomagnification in the food chain.

12.4 Mobility in Soil

Low mobility in soil; binds to soil organic matter (K_{oc} = 420).

12.5 PBT/vPvB Assessment

Not classified as PBT/vPvB (meets biodegradability criteria).

12.6 Other Adverse Effects

Harmful to aquatic invertebrates; no adverse effects on soil microorganisms at normal dosage.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

- **Product Waste:** Unused or contaminated amyl cinnamal shall be disposed of to licensed waste treatment facilities in accordance with local/national/international regulations. Do not dump into the environment.
- **Packaging Waste:** Rinse packaging with ethanol for residual removal, then dispose of as non-hazardous packaging waste; or recycle after professional decontamination.
- **Spilled Waste:** Collect all spilled material and dispose of as product waste; do not mix with domestic waste.

13.2 Disposal Notes

Comply with China's Solid Waste Pollution Control Law and EU REACH waste disposal regulations; avoid environmental release during disposal.

SECTION 14: Transport Information

14.1 UN Number

ADR/RID: -; IMDG: -; IATA-DGR: -

14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods; IMDG: Not dangerous goods; IATA-DGR: Not dangerous goods

14.3 Transport Hazard Class(es)

ADR/RID: -; IMDG: -; IATA-DGR: -

14.4 Packaging Group

ADR/RID: -; IMDG: -; IATA-DGR: -

14.5 Environmental Hazards

ADR/RID: No; IMDG Marine Pollutant: No; IATA-DGR: No

14.6 Special Precautions for User

- Transport in sealed, light-proof HDPE plastic drums or glass bottles; mark product information and hazard warnings clearly on the package.
- Avoid collision, extrusion, direct sunlight and high temperature during transport; keep away from strong oxidizing agents and acids.
- Transport by ordinary vehicles; no mixed transport with food, beverages and daily necessities.

SECTION 15: Regulatory Information

15.1 National and International Regulations

- **China:** GB 2760-2021 (approved food flavor additive); GB/T 16483-2008 (MSDS compliance); Cosmetic Safety Technical Specification (2015 version, approved for cosmetic use)
- **EU:** REACH (registered); CLP (GHS classification as H317, H319, H402, H412); Cosmetics Regulation (EC 1223/2009, approved for cosmetic use)
- **US:** TSCA (listed on inventory); FDA (approved for food flavor use); OSHA (OEL 5 ppm)
- **International:** GHS Rev.9 (classification compliance); IFRA (International Fragrance Association) standards (approved for fragrance use)

15.2 Other Regulations

Comply with local fragrance and cosmetic raw material safety standards; comply with aquatic environmental protection regulations.

SECTION 16: Other Information

- **Further Information:** This MSDS is based on current scientific and regulatory information, complying with GB/T 16483, GB/T 17519, GHS, IMDG and IATA standards. It is for safe handling, storage, transport and disposal of the product. The supplier is not liable for damage caused by improper use or non-compliance with safety precautions.