



# 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)

### - Clove Bud Tincture (Extract)

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

**Name:** Clove Bud Tincture (Extract) **Revision Date:** 28 FEB 2026

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

#### 1.1 Product Identifiers

- Product Name: Clove Bud Tincture (Extract)
- Synonyms: Clove Bud Extract (70% Ethanol); Eugenia caryophyllata Bud Tincture
- Product Number: CBT-20260228
- Brand: SIGALD
- Main Components: Ethanol (CAS 64-17-5, ~70%), Clove Bud Extract (contains Eugenol, CAS 97-53-0, ~3.8%)
- Mixture Type: Herbal Tincture

#### 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:** Flavor & fragrance raw material; cosmetic formulation; pharmaceutical intermediate; food flavor (diluted).
- **Uses Advised Against:** Undiluted skin contact; consumption of undiluted product; use near open flame without ventilation; use in infant products (0-3 years) without approval.

### SECTION 2: Hazards Identification

#### 2.1 GHS Classification

- Flammable Liquid, Category 2 (H225)
- Acute Toxicity, Oral, Category 4 (H302)
- Skin Irritation, Category 2 (H315)
- Serious Eye Damage, Category 1 (H318)
- Skin Sensitization, Category 1 (H317)
- Aquatic Acute Toxicity, Category 2 (H401)

#### 2.2 GHS Label Elements

- **Hazard Pictograms:** (Flame), (Exclamation mark), (Health Hazard)
- **Signal Word:** Danger
- **Hazard Statements:**
  - H225: Highly flammable liquid and vapor
  - H302: Harmful if swallowed
  - H315: Causes skin irritation
  - H317: May cause an allergic skin reaction
  - H318: Causes serious eye damage
  - H401: Toxic to aquatic life
- **Precautionary Statements:**
  - P210: Keep away from heat, sparks, open flames and hot surfaces. No smoking.
  - P233: Keep container tightly closed.
  - P240: Ground and bond container and receiving equipment.

- P261: Avoid breathing vapor/spray.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P280: Wear protective gloves/eye protection/face protection.
- P301+P312: If swallowed: Call a POISON CENTER/doctor if you feel unwell.
- P305+P351+P338+P310: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
- P370+P378: In case of fire: Use dry powder, CO<sub>2</sub> or foam for extinction.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P501: Dispose of contents/container to an approved waste disposal plant.

## 2.3 Physical and Chemical Hazards

Highly flammable liquid and vapor (due to high ethanol content). Vapors may form explosive mixtures with air.

## 2.4 Health Hazards

- **Acute:** Ethanol causes central nervous system depression if swallowed. Eugenol component causes severe eye damage and skin sensitization/irritation.
- **Chronic:** Repeated skin contact may lead to allergic contact dermatitis. Prolonged inhalation of ethanol vapor may cause dizziness.

## 2.5 Environmental Hazards

Toxic to aquatic life (primarily due to ethanol and eugenol). Biodegradable but should be prevented from entering waterways.

## SECTION 3: Composition/Information on Ingredients

- **Substance / Mixture:** Complex Mixture (Tincture)  
表格

Component	CAS No.	Concentration (v/w)	GHS Classification
Ethanol (Ethyl Alcohol)	64-17-5	68.0 - 72.0%	H225, H302, H319, H401
Clove Bud Extract (Eugenol-rich)	8000-34-8	28.0 - 32.0%	H315, H317, H318, H402
Eugenol (in extract)	97-53-0	3.0 - 4.0%	H315, H317, H318

## SECTION 4: First Aid Measures

### 4.1 Description of First-Aid Measures

- **If Inhaled:** Remove to fresh air. If breathing is difficult, give oxygen. Keep warm and at rest. Call a doctor if symptoms persist.
- **In Case of Skin Contact:** Remove contaminated clothing. Wash skin thoroughly with plenty of soap and water for at least 15 minutes. If irritation or rash develops, get medical attention.
- **In Case of Eye Contact: IMMEDIATE ACTION REQUIRED.** Rinse eyes continuously with water for at least 15-20 minutes, holding eyelids open. Do not delay rinsing. Call a doctor or eye specialist immediately.
- **If Swallowed:** Do NOT induce vomiting. Rinse mouth with water. Give water to drink if the person is conscious. Call a poison center or doctor immediately.

### 4.2 Most Important Symptoms and Effects

- **Acute:** Eye pain, corneal damage, skin redness/itching, nausea, dizziness, drowsiness (from ethanol).
- **Delayed:** Skin rash (24-48 hours post-contact in sensitized individuals).

### 4.3 Notes to Physician

Treat symptomatically. Note the high ethanol content and eugenol-induced eye damage.

## SECTION 5: Firefighting Measures



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## 5.1 Extinguishing Media

- **Suitable:** Dry chemical powder, Carbon Dioxide (CO<sub>2</sub>), Alcohol-resistant foam.
- **Unsuitable:** Water jet (may spread the flammable liquid).

## 5.2 Special Hazards Arising from the Substance

Vapors are heavier than air and may travel to a source of ignition and flash back. Combustion produces carbon monoxide (CO) and irritating fumes.

## 5.3 Advice for Firefighters

Wear self-contained breathing apparatus (SCBA) and full fire fighting gear. Cool containers exposed to fire with water spray until well after the fire is out.

## SECTION 6: Accidental Release Measures

### 6.1 Personal Precautions

Evacuate unnecessary personnel. Eliminate all ignition sources (no smoking, flares, sparks). Wear appropriate PPE (see Section 8). Ensure adequate ventilation.

### 6.2 Environmental Precautions

Prevent spillage from entering drains, sewers, rivers or lakes. Contain runoff if possible.

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

- **Small Spill:** Absorb with inert material (sand, diatomaceous earth). Transfer to a labeled, sealable container for disposal. Wipe area with water.
- **Large Spill:** Dike with sand or earth to contain flow. Pump into labeled, sealable drums. Dispose of according to regulations.

## SECTION 7: Handling and Storage

### 7.1 Precautions for Safe Handling

Use only in a well-ventilated area. Avoid contact with eyes and skin. Use explosion-proof electrical equipment. Do not ingest. Wash hands thoroughly after handling.

### 7.2 Conditions for Safe Storage

- **Storage:** Keep in a cool, well-ventilated, flammable liquids storage area.
- **Temperature:** 5 - 25°C.
- **Compatibility:** Keep away from strong oxidizers (e.g., hydrogen peroxide, nitric acid), strong acids, and open flames.
- **Shelf Life:** 24 months from date of manufacture (unopened, refrigerated).

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Exposure Controls

- **Engineering Controls:** Local exhaust ventilation to keep vapor concentrations below exposure limits. Explosion-proof lighting and equipment.

### 8.2 Personal Protective Equipment (PPE)

- **Eye/Face:** **Chemical splash goggles** and face shield (mandatory due to H318).
- **Skin:** Nitrile rubber gloves (minimum thickness 0.11 mm), flame-retardant lab coat.
- **Respiratory:** Organic vapor cartridge respirator (when ventilation is inadequate).
- **Hands:** Do not use latex gloves (ethanol may degrade latex).

## SECTION 9: Physical and Chemical Properties

1. **Physical State:** Liquid
2. **Color:** Amber to reddish-brown
3. **Odor:** Strong, characteristic clove, pungent
4. **pH:** 4.0 - 6.0 (25°C)
5. **Boiling Point:** ~78°C (dominated by ethanol)
6. **Flash Point:** 21°C (Closed Cup, highly flammable)
7. **Relative Density:** 0.860 - 0.880 (20/20°C)



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8. **Refractive Index:** 1.4550 - 1.4650 (20°C)
9. **Solubility:** Miscible with water, ethanol, propylene glycol.
10. **Vapor Pressure:** ~79.99 hPa (20°C, dominated by ethanol)

## SECTION 10: Stability and Reactivity

### 10.1 Chemical Stability

Stable under recommended storage conditions. May darken slightly over time due to natural components (non-hazardous).

### 10.2 Conditions to Avoid

Heat, open flame, direct sunlight, strong oxidizing agents.

### 10.3 Hazardous Decomposition Products

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), and aromatic smoke upon combustion.

## SECTION 11: Toxicological Information

- **Ethanol:** LD<sub>50</sub> (Oral, Rat) = 7060 mg/kg. CNS depressant.
- **Eugenol:** LD<sub>50</sub> (Oral, Rat) = 1500 mg/kg. Causes severe eye damage (H318) and skin sensitization (H317).
- **Tincture (Mixture):** Expected to exhibit combined hazards of its components.

## SECTION 12: Ecological Information

- **Toxicity:** Toxic to aquatic life (H401).
- **Persistence:** Ethanol is readily biodegradable. Eugenol degrades in 28 days (BOD<sub>5</sub> /COD > 0.5).
- **Bioaccumulation:** Low potential (BCF < 100).

## SECTION 13: Disposal Considerations

Dispose of as a **flammable hazardous waste**. Do not pour down drains. Contact a licensed professional waste disposal service to dispose of this material. Contaminated packaging should be disposed of similarly.

## SECTION 14: Transport Information

### 14.1 UN Number

ADR/RID: 1170; IMDG: 1170; IATA-DGR: 1170

### 14.2 UN Proper Shipping Name

Ethanol, solution

### 14.3 Transport Hazard Class

3 (Packing Group II)

### 14.4 Special Precautions

Label as "FLAMMABLE LIQUID". Do not transport with oxidizers or foodstuffs.

## SECTION 15: Regulatory Information

- **China:** Complies with GB 2760-2021 (Food Additive), GB/T 16483.
- **EU:** Complies with REACH, CLP, and EC 1223/2009 (Cosmetics).
- **US:** TSCA listed (Ethanol, Eugenol). FDA approved for food use (when diluted).

## SECTION 16: Other Information

This MSDS is prepared for professional use only. The information is based on current knowledge and is provided in good faith.