

## Technical Data Sheet (TDS)

### - Sweet Bay Oil

**Product Name:** Sweet Bay Oil **English Name:** Sweet Bay Oil (Bay Laurel Oil) **CAS Number:** 8007-65-6 **MDL Number:** MFCD00148158 **Main Component:** 1,8-Cineole (C<sub>10</sub> H<sub>18</sub> O, CAS 470-82-6, ≥40%) **Revision Date:** 26 FEB 2026

### 1. Product Overview

SIGALD Sweet Bay Oil is a premium natural essential oil obtained by steam distillation of the fresh or dried leaves of the *Laurus nobilis* tree (Bay Laurel). Renowned since ancient times, this oil possesses a distinctive, fresh-spicy, and camphoraceous aroma with herbaceous undertones. With a high 1,8-Cineole content (typically 45%), it exhibits excellent antimicrobial properties and is highly valued in the fragrance, flavor, and aromatherapy industries. Our product is produced under GMP conditions, is free from solvents and additives, and complies with IFRA and FDA standards.

#### Key Benefits:

- **Dual-Nature Scent:** Combines spicy, herbaceous, and camphoraceous notes, ideal for masculine and herbal fragrances.
- **Functional Properties:** Natural antimicrobial and antioxidant activity.
- **Food Grade:** Approved for use as a flavor ingredient in culinary applications.
- **Stable:** Good oxidative stability compared to other citrus/herbal oils.

### 2. Technical Specifications

Parameter	Specification	Test Method
Appearance	Colorless to pale yellow clear liquid	Visual
Odor	Characteristic spicy-herbaceous	Sensory
1,8-Cineole Content	≥ 40.0% (Typical: 45.2%)	GC
Relative Density (20/20°C)	0.915 - 0.935	Pycnometer
Refractive Index (20°C)	1.4580 - 1.4680	Abbe Refractometer
Optical Rotation (20°C)	-10.0° to +5.0°	Polarimeter
Acid Value	≤ 3.0 mg KOH/g	Titration
Water Content	≤ 0.5%	Karl Fischer
Heavy Metals (Pb)	≤ 5 ppm	AAS
Solubility	Soluble in 70% Ethanol (1:4)	Visual

### 3. Application Fields & Recommended Dosage

Sweet Bay Oil is versatile, finding use in fragrance, flavor, and therapeutic applications. **Always dilute before use.**

Industry	Application	Recommended Dosage (%)
Fine Fragrance	Perfumes, Colognes, Aftershaves	1.0 - 8.0%
Cosmetics	Soaps, Shampoos, Deodorants	0.5 - 3.0%
Food & Beverage	Soups, Sauces, Meat, Liquor	0.005 - 0.1%
Aromatherapy	Diffusers, Massage Oils	0.5 - 2.0%
Household	Cleaners, Insect Repellents, Candles	1.0 - 5.0%

### 4. Usage Guidelines & Processing



# NEWAY SINOPHC TECH. LIMITED

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1. **Solubility:** Insoluble in water. Dissolve in ethanol, propylene glycol, or a fixed oil (e.g., jojoba) before adding to aqueous formulations.
2. **Incorporation:**
  - For cold process: Add after the main cooling phase.
  - For food: Add during the cooking process to infuse flavor, or at the end for aroma retention.
3. **Compatibility:** Compatible with most fragrance materials (especially pine, citrus, and spice oils). Avoid strong alkaline conditions (pH > 8.5).
4. **Safety Note:** Due to the high 1,8-Cineole content, avoid use on sensitive skin. A patch test is recommended for cosmetic formulations.

## 5. Packaging & Storage

### 5.1 Packaging Specifications

Grade	Packaging
Sample	10mL, 30mL Amber Glass Vials
Commercial	100mL, 500mL, 1L Amber Glass Bottles
Bulk	5L, 25L Light-proof HDPE Drums; 200L Iron Drums

### 5.2 Storage Conditions

- **Storage:** Store in a cool, dry, and dark place at 10-25°C.
- **Handling:** Keep the container tightly sealed when not in use to prevent evaporation and oxidation.
- **Shelf Life:**
  - **Unopened:** 24 months from the date of manufacture.
  - **Opened:** 6-12 months. Store in a refrigerator to extend shelf life.
- **Note:** Slight darkening over time is natural and does not indicate spoilage.

## 6. Quality Assurance & Regulatory Compliance

- **Manufacturing:** Produced in an ISO 9001 certified facility.
- **Compliance:**
  - **IFRA:** Compliant with the International Fragrance Association standards.
  - **EU:** REACH registered, compliant with Cosmetics Regulation 1223/2009.
  - **US:** TSCA listed, FDA approved for food use (21 CFR § 182.20).
  - **China:** GB 2760-2021 (Food Additive) compliant.
- **Documentation:** Each batch is accompanied by a **Certificate of Analysis (COA)**.

## 7. Supplier Information

- **Supplier:** 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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- **Technical Support:** Our team provides formulation support and regulatory guidance for your specific application.