

Safety Data Sheet (MSDS)

- Ginger Oleoresin

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

Name: Ginger Oleoresin **Revision Date:** 29 FEB 2026

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

1.1 Product Identifiers

- Product Name: Ginger Oleoresin
- Synonyms: Zingiber officinale Oleoresin; Ginger Extract Resin; Natural Ginger Oleoresin
- Product Number: GOR-20260229
- Brand: SIGALD
- CAS-No.: 8024-33-9
- MDL Number: MFCD00148165
- Main Components: 6-Gingerol (CAS: 23513-14-6), 6-Shogaol (CAS: 555-66-8)
- Molecular Weight: Variable (natural mixture)

1.2 Details of the Supplier

- 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 Uses

- **Identified Uses:** Food flavor & color additive; cosmetic formulation (warming care products); pharmaceutical intermediate; dietary supplement raw material; fragrance industry.
- **Uses Advised Against:** Undiluted direct skin contact (may cause irritation); use in infant products (0-3 years) without dilution; use near open flame/high temperature without protection.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Flammable Liquid, Category 4 (H227)
- Skin Irritation, Category 2 (H315)
- Eye Irritation, Category 2 (H319)
- Aquatic Acute Toxicity, Category 3 (H402)
- Aquatic Chronic Toxicity, Category 3 (H412)

2.2 GHS Label Elements

- **Pictograms:** (Exclamation Mark)
- **Signal Word:** Warning
- **Hazard Statements:**
 - H227: Combustible liquid
 - H315: Causes skin irritation
 - H319: Causes serious eye irritation
 - H402: Harmful to aquatic life
 - H412: Harmful to aquatic life with long-term effects
- **Precautionary Statements:** P210, P264, P273, P280, P302+P352, P305+P351+P338, P332+P313, P370+P378, P501

SECTION 3: Composition/Information on Ingredients



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- **Mixture:** Solvent-extracted oleoresin from *Zingiber officinale* rhizomes (contains volatile oil and non-volatile pungent principles).
- **Key Components:** Total Gingerols (25.0-35.0%), Ginger Essential Oil fraction (10-20%), Shogaols (trace).

表格

Ingredient	CAS No.	Concentration	GHS Classification
6-Gingerol	23513-14-6	20.0-30.0%	H315, H319, H402, H412
Ginger Oleoresin (Mixture)	8024-33-9	100%	H227, H315, H319, H402, H412

SECTION 4: First Aid Measures

- **Inhalation:** Remove to fresh air. Rest and keep warm. If coughing or chest discomfort persists, call a physician.
- **Skin Contact:** Wash immediately with plenty of soap and water for 10-15 minutes. Remove contaminated clothing. If irritation or burning sensation persists, get medical attention.
- **Eye Contact:** Rinse cautiously with water for 15-20 minutes, holding eyelids open. Remove contact lenses if present. Call a physician immediately (may cause persistent stinging).
- **Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Call a poison center or physician immediately, especially if large quantities are ingested (may cause gastrointestinal burning).

SECTION 5: Firefighting Measures

- **Suitable Media:** Dry chemical powder, CO₂, Alcohol-resistant foam.
- **Unsuitable Media:** Direct water jet (ineffective due to high viscosity).
- **Special Hazards:** Combustion may produce carbon monoxide and irritating aromatic fumes. Vapors may travel to ignition sources.
- **Advice:** Wear self-contained breathing apparatus (SCBA) and full protective gear. Cool containers with water spray until well after fire is out (prevents thermal decomposition).

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Wear nitrile gloves, safety goggles, and respirator if dust/vapor is present. Eliminate all ignition sources.
- **Environmental Precautions:** Prevent entry into sewers, water courses, or soil (cover spill with absorbent to avoid runoff).
- **Clean-up:** Small spills: Absorb with sand or diatomaceous earth, scoop into sealed container for disposal. Large spills: Dike with inert material, pump into sealable drums (warm slightly to reduce viscosity if needed).

SECTION 7: Handling and Storage

- **Handling:** Use in a well-ventilated area. Avoid contact with skin and eyes (pungent components cause irritation). Do not eat, drink or smoke while handling. Wash hands thoroughly after use.
- **Storage:** Store in a cool, dark, well-ventilated area (5-25°C). Keep container tightly closed to prevent oxidation and evaporation.
- **Incompatibilities:** Strong oxidizing agents, strong acids, alkaline materials.
- **Shelf Life:** 24 months (unopened, nitrogen-filled packaging recommended).

SECTION 8: Exposure Controls/Personal Protection

- **PPE:** Chemical safety goggles (side shield), nitrile rubber gloves (≥0.11 mm), chemical-resistant lab coat.
- **Respiratory:** Organic vapor cartridge respirator if ventilation is inadequate or during bulk handling.
- **Hygiene:** Provide emergency eye wash and safety shower in the workplace. Launder contaminated clothing separately.



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SECTION 9: Physical and Chemical Properties

- **State:** Viscous liquid to paste
- **Color:** Dark amber to brown
- **Odor:** Strong, characteristic pungent ginger aroma
- **Flash Point:** 89°C (Closed Cup)
- **Relative Density:** 0.980 - 1.020 (20/20°C)
- **Refractive Index:** 1.5200 - 1.5400 (20°C)
- **Optical Rotation:** -20.0° to 0.0° (20°C)
- **Solubility:** Soluble in 95% ethanol, propylene glycol, fixed oils; Insoluble in water.
- **Viscosity:** High (200-500 mPa·s at 25°C)

SECTION 10: Stability and Reactivity

Stable under normal storage conditions. Oxidizes slowly on exposure to air/light, forming shogaols (natural reaction, increases pungency). No hazardous polymerization expected. Decomposes at high temperatures (>180°C) producing irritating fumes.

SECTION 11: Toxicological Information

- **Acute Toxicity:** LD₅₀ (Oral, Rat) > 5000 mg/kg; LD₅₀ (Dermal, Rabbit) > 2000 mg/kg.
- **Irritation:** Causes moderate skin irritation (pungent effect) and serious eye irritation (GHS Category 2).
- **Sensitization:** Low potential for skin sensitization (unlike some essential oils).
- **Carcinogenicity:** IARC Group 3 (Not classifiable as to its carcinogenicity to humans).

SECTION 12: Ecological Information

- **Toxicity:** Harmful to aquatic life (H402, H412) due to organic components.
- **Biodegradability:** Readily biodegradable (>75% in 28 days) under aerobic conditions.
- **Bioaccumulation:** Low potential (BCF < 100).

SECTION 13: Disposal Considerations

Dispose of contents and container as combustible hazardous waste in accordance with local regulations. Incineration with flue gas treatment is recommended. Do not discharge into drains or the environment. Rinse empty containers before disposal.

SECTION 14: Transport Information

- **UN Number:** 1993
- **UN Proper Shipping Name:** Flammable liquids, n.o.s. (Ginger Oleoresin)
- **Class:** 3
- **Packing Group:** III
- **Marine Pollutant:** No

SECTION 15: Regulatory Information

- **EU:** REACH Registered. Compliant with EC 1223/2009 (Cosmetics) and EC 1334/2008 (Flavorings).
- **US:** TSCA Listed. FDA approved for food use (21 CFR § 182.20, § 184.1257).
- **China:** Compliant with GB 2760-2021 (Food Additive) and Cosmetic Safety Technical Specification (2015).

SECTION 16: Other Information

Revision Note: First Issue.**Disclaimer:** This MSDS is based on current scientific and regulatory data. The supplier is not liable for damage caused by improper use or handling.