Safety Data Sheet (MSDS)

- L-Menthol, Natural 天然 L - 薄荷醇

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)**Revision Date**: 28 FEB 2026

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

1.1 Product Identifiers

- Product Name: L-Menthol, Natural (天然 L - 薄荷醇)
- Synonyms: (1R,2S,5R)-2-Isopropyl-5-methylcyclohexanol; Natural Mint Alcohol
- Product Number: LMN-20260228
- Brand: SIGALD
- CAS-No.: 2216-51-5
- MDL No.: MFCD00064264
- Form: Colorless to white crystalline solid/needles
- Grade: Food Grade / Cosmetic Grade / Pharmaceutical Grade / Industrial Grade

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 (24h Chemical Emergency Response)

1.4 Relevant Identified Uses and Uses Advised Against

- **Identified Uses**: Food/beverage flavoring/cooling agent; cosmetic/pharmaceutical cooling/anti-pruritic/ flavoring raw material; oral care fresh breath agent; daily chemical fragrance fixative; industrial cooling agent.
- **Uses Advised Against**: Not for injection without pharmaceutical purification; do not use as a sole food source; avoid long-term contact with strong oxidants/high temperature (>60℃); do not mix with strong alkalis in high concentration.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Eye irritation, Category 4 - H320
- Skin irritation, Category 4 - H315 (mild, in sensitive individuals)
- Specific target organ toxicity - single exposure, respiratory tract irritation, Category 4 - H335 (in case of massive inhalation)

2.2 GHS Label Elements

- Hazard Pictogram: None
- Signal Word: **WARNING**
- **Hazard Statements**:
  - H315: May cause mild skin irritation (sensitive individuals)
  - H320: Causes mild eye irritation
  - H335: May cause respiratory tract irritation (massive inhalation)
- **Precautionary Statements**:
  - P264: Wash hands thoroughly after handling
  - P280: Wear protective gloves/eye protection for large-scale handling
  - P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
  - P312: Call a POISON CENTER or doctor/physician if you feel unwell.

2.3 Physical and Chemical Hazards

Non-flammable, non-explosive; melts at 41~44℃ (no hazardous reaction during melting); volatilizes at room temperature (no hazardous vapor); decomposes at high temperature (>200℃) to produce non-toxic carbon dioxide and water vapor; no polymerization risk; no corrosivity or oxidizing properties.

2.4 Health Hazards

Non-toxic, low-irritating for normal use; mild transient skin/eye irritation may occur in sensitive individuals; massive inhalation of menthol powder/vapor may cause mild respiratory tract discomfort (cough, sore throat); no acute/chronic toxic effects, no carcinogenic, mutagenic

or reproductive toxic effects; safe for human oral intake and topical use in recommended dosage.

2.5 Environmental Hazards

Environmentally friendly, fully biodegradable (biodegradation rate >90% in 28d); low toxicity to aquatic and terrestrial organisms; no soil and water pollution risk; no bioaccumulation potential; menthol vapor is non-toxic to plants and can be naturally degraded in the air.

2.6 Other Hazards

No additional hazards identified; no aspiration hazard for solid crystalline form under normal operation; menthol volatilization may cause slight cool sensation in the surrounding environment, no adverse effects.

SECTION 3: Composition/Information on Ingredients

- **Substance / Mixture**: Pure substance (high-purity natural monoterpene alcohol, trace impurities meet grade standards)
- **Main Component**: | Component | Content (w/w) | CAS-No. | Function | Hazard Classification | |---|---|---|---|---|---| | L-Menthol (Natural) | ≥99.0% | 2216-51-5 | Cooling agent/flavoring/fragrance fixative | Eye Irrit. 4; Skin Irrit. 4; STOT-SE 4 | | Trace mint plant extract impurities | ≤1.0% | N/A | By-product | Non-hazardous |
- **Hazardous Components**: Only L-menthol has mild irritation classification (no severe hazard); all impurities meet food/cosmetic/pharmaceutical/feed grade standards.

SECTION 4: First Aid Measures

4.1 Description of First-Aid Measures

- **If Inhaled (powder/vapor)**: Move the victim to fresh air immediately, keep the respiratory tract unobstructed and at rest. No special treatment needed for mild inhalation; if coughing, chest tightness or sore throat occurs, drink a small amount of warm water and rest, consult a physician only if symptoms persist for more than 24 hours.
- **In Case of Skin Contact**: No special treatment required for normal skin; the product has a cooling effect on the skin. For sensitive individuals with mild redness/irritation, rinse with clean water and apply a mild moisturizer; consult a physician if irritation worsens.
- **In Case of Eye Contact**: Rinse eyes with plenty of clean running water for 5~10 minutes if splashed with crystals/melted liquid (pry open eyelids to rinse thoroughly); remove contact lenses if present and easy to do. Consult an ophthalmologist only if mild redness or irritation persists (rare).
- **If Swallowed**: No toxic effect; rinse mouth with water, do not induce vomiting. The product is a food-grade flavoring agent; massive ingestion may cause mild gastrointestinal discomfort (e.g., bloating, cool taste in the throat), drink warm water and rest, consult a physician only if symptoms persist for more than 24 hours.

4.2 Most Important Symptoms and Effects

- **Acute Effects**: Mild transient skin/eye irritation in sensitive individuals after direct contact; mild respiratory tract discomfort after massive inhalation of powder/vapor; no other acute toxic effects.
- **Delayed Effects**: No known delayed toxic effects based on current scientific data; long-term use in specified dosage has cooling, flavoring and sensory improvement effects for the human body.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

No immediate medical attention needed under normal use and accidental contact; consult a physician only if massive inhalation causes persistent respiratory discomfort or rare severe skin/eye irritation. No specific antidote is required; treat symptomatically if needed.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- **Suitable**: Water spray, foam, carbon dioxide (CO_2), dry powder; use water spray to cool the container and solidify melted menthol for large-scale fire.
- **Unsuitable**: No special limitations on extinguishing media; avoid direct high-pressure water jet (may cause crystal/powder flying).

5.2 Special Hazards Arising from the Substance or Mixture

Non-flammable, no fire risk under normal conditions; decomposes at high temperature (>200℃) to produce non-toxic carbon dioxide and water vapor; no hazardous combustion gases, smoke or fumes generated; no polymerization during heating/combustion.

5.3 Advice for Firefighters

- Wear standard fire-fighting gear (fire-proof clothing, nitrile rubber gloves, basic respiratory mask); fight the fire from the upwind direction and a safe distance.
- Cool the surrounding containers with water spray continuously to prevent high-temperature deformation and menthol volatilization/decomposition; avoid inhaling a large amount of menthol vapor (may cause mild respiratory discomfort).
- After the fire, ventilate the scene thoroughly and clean the fire site with water; the residual menthol crystals have no irritation and no secondary pollution.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Wear **basic personal protective equipment** (nitrile rubber gloves, safety glasses, dust mask for large spills); no unprotected personnel enter the spill area.
- Ensure good ventilation in the spill area to disperse volatilized menthol vapor; avoid sweeping the crystals violently to prevent dust flying and inhalation.
- Set up a warning zone with "Low-irritation Crystalline Solid, Wear PPE" signs for large spills; keep children and pets away.

6.2 Environmental Precautions

- No special environmental precautions; the product is fully biodegradable and non-toxic to the environment; a small amount of spilled crystals can be naturally volatilized/degraded, no pollution to soil and water; a large amount of spilled crystals can be collected and reused to avoid waste.

6.3 Methods and Materials for Containment and Cleaning Up

- **Small Spill**: Collect the crystals with a clean shovel/brush and transfer them to a sealed plastic container for reuse or disposal; wipe the spill area with a damp cloth to remove residual crystals (the cleaning wastewater can be directly discharged into the sewer).
- **Large Spill**: Cover the crystals with a clean dry cloth to reduce volatilization; collect the crystals with a clean shovel and transfer them to a sealed HDPE drum, label the drum with "L-Menthol, Natural - Non-hazardous Crystalline Solid"; clean the spill area with a small amount of water, and the cleaning wastewater can be directly discharged into the sewer (biodegradable).

6.4 Reference to Other Sections

For disposal of spilled waste, see Section 13; for personal protection, see Section 8.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

- Operate in a **cool, well-ventilated area**; install local exhaust ventilation for large-scale melting/grinding operation to collect menthol vapor/powder and avoid inhalation/volatilization; use closed equipment for melting and mixing if possible.
- Do not mix with strong oxidants (e.g., hydrogen peroxide, potassium permanganate) and strong alkalis (e.g., sodium hydroxide, potassium hydroxide) at will to prevent slight decomposition and loss of cooling/aroma effect.
- **Hygiene Measures**: Wash hands and face with soap and water thoroughly after handling; do not eat, drink or smoke in the operation area; provide dedicated hand washing facilities (for food/cosmetic/pharmaceutical grade production, follow GMP hygiene requirements).
- Use clean plastic/glass/stainless steel tools for handling; avoid using iron/copper tools for long-term contact (no chemical reaction, to prevent metal ion contamination).

7.2 Conditions for Safe Storage, Including Any Incompatibilities

- **Storage Conditions**: Store in a cool, dry, well-ventilated warehouse at 5 ~ 25℃; avoid direct sunlight, high temperature (>30℃) and high humidity (RH >60%); keep the container tightly sealed with a moisture-proof and airtight cover (to prevent menthol volatilization and moisture absorption).
- **Incompatibilities**: Strong oxidants, strong alkalis, high-temperature heat sources, odorous substances and food raw materials (cross-contamination prevention).
- **Storage Class (TRGS 510)**: 13 (Non-Hazardous Solids)
- **Shelf Life**: 24 months (unopened, under the specified storage conditions); use within 6 months after opening, reseal tightly and store in a cool dry place.
- **Other**: Store food/cosmetic/pharmaceutical grade products separately from industrial grade products to avoid cross-contamination; keep away from children and pets (to avoid accidental ingestion of large quantities); store in moisture-proof pallets (plastic, stainless steel).

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

- **Occupational Exposure Limit (OEL) for L-Menthol**:
  - US OSHA PEL: 50 ppm (300 mg/m³, 8h TWA)
  - EU OEL: 50 ppm (300 mg/m³, 8h TWA)
  - China MAC: 60 mg/m³ (8h TWA)
- **Biological Exposure Limit**: No relevant biological exposure limit for natural L-menthol at present.

8.2 Exposure Controls

- **Engineering Controls**: No special engineering controls required for small-scale handling; install local exhaust ventilation (airflow rate ≥ 1.0 m/s) for large-scale melting/grinding operation to collect vapor/powder; set up local exhaust hood at the operation point if necessary.
- **Personal Protective Equipment (PPE)**:
  - Eye/Face: Safety glasses (mandatory for all crystalline solid operations) to avoid splashing into eyes; face shield is optional for large-batch melting/pouring.
  - Skin: Nitrile rubber gloves (food/cosmetic/pharmaceutical grade for corresponding production) for prolonged contact; no protective clothing required under normal conditions.
  - Respiratory: Disposable dust mask for large-scale powder operation; half-face respirator with organic vapor filter for massive vapor inhalation risk; no respiratory protection needed for small -scale handling.
  - Other: Disposable hair cap and shoe covers (for food/cosmetic/pharmaceutical grade GMP production); avoid wearing loose clothing during operation to prevent crystal adhesion.
- **Control of Environmental Exposure**: No special environmental exposure controls; the product is biodegradable and non-polluting, no risk of environmental exposure; collect and reuse spilled crystals to reduce waste and volatilization.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

a) Physical State: Solid (crystalline needles)b) Color: Colorless to whitec) Odor: Characteristic fresh and cool mint odord) Melting Point/Freezing Point: 41 ~ 44℃ (melting); ≤0℃ (no crystallization change)e) Initial Boiling Point and Boiling Range: 216 ~ 217℃f) Flammability (Solid/Gas): Non-flammable (flash point > 100℃)g) Upper/Lower Flammability or Explosive Limits: Not applicable (non-flammable)h) Flash Point: 93℃ (Closed Cup)i) Autoignition Temperature: > 380℃j) Decomposition Temperature: > 200℃ (mild decomposition, non-hazardous products)k) pH Value: Not applicable (neutral organic solid)l) Viscosity: Not applicable (solid); 2 ~ 5 mPa·s (melted liquid at 50℃)m) Solubility: 1 g in 0.2 mL 95% ethanol, 1 g in 1.5 mL propylene glycol, 1 g in 80 mL water, soluble in vegetable oil/ether; insoluble in glyceroln) Partition Coefficient (n-octanol/water): log Kow = 3.2o) Vapor Pressure (25℃): 0.02 hPa (slight volatilization)p) Bulk Density (25℃): 0.89 ~ 0.92 g/cm³q) Relative Vapor Density: 5.36 (air=1)r) Particle Size (D50): 80 ~ 150 μm (food/cosmetic grade fine powder)s) Explosive Properties: Not explosivet) Oxidizing Properties: None (weak reducing property)

9.2 Other Safety Information

The product volatilizes slightly at room temperature (no hazardous vapor); melts into a colorless transparent liquid at 41~44℃, which can be completely solidified after cooling with no change in performance and purity; absorbs a small amount of moisture in high humidity environment (RH >60%) but no caking, and the performance remains unchanged after drying (80℃, 1h); decomposes at high temperature (>200℃) with no hazardous by-products, and the decomposition products have no irritation and pollution to the human body and the environment.

SECTION 10: Stability and Reactivity

10.1 Chemical Stability

Stable under **recommended storage and use conditions (5~25℃, dry, sealed)**; no decomposition, no chemical reaction; the cooling effect, aroma and purity remain stable for a long time; stable in neutral/weak acidic systems (pH 5.0 ~ 7.0); no oxidation or discoloration under normal storage conditions.

10.2 Possibility of Hazardous Reactions

No hazardous reactions under normal sealed and dry handling/storage conditions; no polymerization risk under any conditions (solid, melted liquid or solution); reacts with strong

oxidants to produce non-toxic alcohols and oxides (no heat/gas release); no violent reaction with weak acids/alkalis.

10.3 Conditions to Avoid

High temperature (>60℃), direct sunlight, high humidity (RH >60%), long-term contact with air/oxygen, contact with strong oxidants/strong alkalis, high-speed grinding (may cause slight heat generation and volatilization).

10.4 Incompatible Materials

Concentrated hydrogen peroxide, potassium permanganate, chlorine bleach and other strong oxidants; sodium hydroxide, potassium hydroxide and other strong alkalis; high-temperature heat sources (>200℃).

10.5 Hazardous Decomposition Products

Decomposes at >200℃ to produce non-toxic carbon dioxide, water vapor and small molecular terpene compounds; no other hazardous decomposition products; the decomposed terpene compounds have a slight mint odor and can be dispersed by ventilation.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

- **Acute Toxicity**:
  - Oral (Rat, LD_{50}): 3,400 mg/kg bw (low toxicity, food-grade flavoring)
  - Dermal (Rabbit, LD_{50}): > 5,000 mg/kg bw (non-toxic, mild cooling effect on skin)
  - Inhalation (Rat, LC_{50}): > 10 mg/m³ (4h exposure, powder/vapor) (mild respiratory tract discomfort at high concentration)
- **Skin Corrosion/Irritation**: Category 4 (Rabbit test); mild transient redness in sensitive individuals, no corrosion, no irreversible damage.
- **Serious Eye Damage/Eye Irritation**: Category 4 (Rabbit test); mild transient conjunctival redness, no corneal damage, irritation disappears after flushing (rare in humans).
- **Respiratory or Skin Sensitization**: No skin/respiratory sensitization (Guinea pig test); no allergic reaction to the human body for normal use.
- **Germ Cell Mutagenicity**: Ames test negative (no mutagenicity); no genotoxic effect.
- **Carcinogenicity**: IARC Class 3 (not classifiable as carcinogenic to humans); L-menthol is a natural plant extract, long-term use has no carcinogenic risk.
- **Reproductive/Developmental Toxicity**: No reproductive/developmental toxicity in animal studies; appropriate dosage is safe for pregnant women and infants (comply with food/cosmetic dosage standards).
- **Specific Target Organ Toxicity (Single/Repeated Exposure)**: STOT-SE 4 (respiratory tract irritation); no other target organ toxicity for normal use with PPE.
- **Aspiration Hazard**: None (solid crystalline form, low bulk density, no aspiration risk under normal operation).

11.2 Additional Information

L-Menthol is a natural monoterpene alcohol widely present in mint plants, with no toxic effects in the recommended dosage; massive oral ingestion may cause mild gastrointestinal discomfort (bloating, cool taste in the throat) and dizziness, which is reversible after stopping use. The product's cooling effect is achieved by stimulating the cold receptor of the human body, with no damage to the skin and mucous membranes for normal use; direct topical use on the skin can relieve itching and bring a refreshing sensory experience.

SECTION 12: Ecological Information

12.1 Toxicity

- **Aquatic Organisms (Low toxicity)**:
  - Zebrafish (LC_{50}, 96h): > 1000 mg/L (aqueous solution)
  - Daphnia (EC_{50}, 48h): > 800 mg/L (aqueous solution)
  - Green algae (EC_{50}, 72h): > 1000 mg/L (aqueous solution)
- **Terrestrial Organisms**: Non-toxic to soil plants, microorganisms and earthworms; menthol can be degraded by soil microorganisms into non-toxic small molecular compounds, which can be absorbed and utilized by plants as nutrients.
- **Other Organisms**: Non-toxic to birds, mammals and pets; accidental ingestion has a mild cooling effect in the oral cavity, no harmful effects, and can be excreted from the body naturally.

12.2 Persistence and Degradability
Fully biodegradable (biodegradation rate >90% in 28d) in aquatic and soil environments; degraded into small molecular alcohols, carbon dioxide and water by microorganisms, no persistent organic pollution; menthol vapor can be naturally degraded in the air under the action of oxygen and sunlight (degradation rate >80% in 72h).
12.3 Bioaccumulative Potential
No bioaccumulation potential (moderate fat solubility, but can be rapidly metabolized and excreted by organisms); no biomagnification in the food chain; the product is a natural plant component, which can be completely degraded and utilized in the ecosystem.
12.4 Mobility in Soil
Low mobility; the crystalline solid is adsorbed by soil organic matter, and the degraded small molecular compounds have moderate mobility and can be absorbed by plants as nutrients; no leaching into groundwater to cause pollution at normal dosage.
12.5 Results of PBT and vPvB Assessment
Not classified as PBT/vPvB (no persistence, no bioaccumulation, low toxicity to aquatic/terrestrial organisms).
12.6 Endocrine Disrupting Properties
No endocrine disrupting effect (in vitro/in vivo animal tests negative); the product only acts on the cold receptor of the human/animal body, and does not affect the endocrine system and hormone secretion.
12.7 Other Adverse Effects
No known adverse ecological impacts; the product is a natural plant extract, biodegradable, and its mint aroma has no adverse effect on the surrounding environment; no eutrophication risk to water bodies (no nitrogen, phosphorus and other nutrient elements).

SECTION 13: Disposal Considerations
13.1 Waste Treatment Methods

- **Product Waste/Expired Crystals**: Classified as **non-hazardous solid waste**; a small amount can be directly buried in the soil (biodegradable) or volatilized in a well-ventilated area; a large amount can be sent to licensed waste treatment facilities for centralized treatment, or used as a raw material for industrial flavoring (if qualified by re-test).
- **Spill Waste/Crystals**: The collected crystals can be reused if not contaminated; otherwise, dispose of as non-hazardous waste, which can be naturally degraded/volatilized in the environment without pollution.
- **Packaging Waste**: Rinse the packaging (HDPE/glass/stainless steel) with plenty of water to remove residual crystals; the clean packaging can be recycled or disposed of as non-hazardous waste; food/cosmetic/pharmaceutical grade packaging is not reused to avoid cross-contamination.

13.2 Disposal Regulations
Comply with China's **Solid Waste Pollution Prevention and Control Law**, **Water Pollution Prevention and Control Law** and **Food Safety Law (for food grade)**; comply with EU REACH (EC 1907/2006) and US FDA waste disposal regulations; follow local non-hazardous waste disposal standards. Prioritize recycling and reuse of the product and packaging to reduce waste discharge and environmental impact.

SECTION 14: Transport Information
14.1 UN Number
ADR/RID: -; IMDG: -; IATA-DGR: - (non-hazardous goods)
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

1. Transport by **ordinary closed vehicles**; avoid direct sunlight, high temperature and high humidity during transport; transport temperature 5 ~ 30℃.
2. Use sealed moisture-proof/airtight packaging (HDPE plastic jar/aluminum foil bag/stainless steel drum); avoid package collision, extrusion and damage during transport; load and unload gently to prevent packaging breakage and menthol volatilization.
3. Do not transport with strong oxidants, strong alkalis, flammable and explosive materials, odorous substances and food raw materials; food/cosmetic/pharmaceutical grade products are transported in dedicated clean vehicles to avoid cross-contamination.
4. No special transport qualification required (non-hazardous goods); comply with ordinary food/cosmetic/pharmaceutical/chemical raw material transport regulations.
5. Take moisture-proof and sun-proof measures for long-distance transport (e.g., put desiccant in the packaging, cover the vehicle with a tarpaulin) to prevent product moisture absorption and volatilization.

14.7 Incompatible Materials for Transport

Same as Section 7.2; avoid transport with strong oxidants, strong alkalis and high-temperature heat sources.

SECTION 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

- **National Regulations (China)**:
  - GB 1886.20-2016 (National Food Safety Standard for L-Menthol)
  - Chinese Pharmacopoeia (ChP 2020) (pharmaceutical grade)
  - Cosmetic Safety Technical Specifications (2021 Version) (cosmetic grade)
  - Hazardous Chemical Safety Management Regulation (Non-hazardous classification)
  - Food Safety Law of the People's Republic of China
- **International Regulations**:
  - EU REACH (EC 1907/2006): Listed in TSCA Inventory, no SVHC
  - EU Cosmetics Regulation (EC 1223/2009): Approved cosmetic raw material
  - US FDA: GRAS (Generally Recognized As Safe) food additive, approved pharmaceutical/cosmetic raw material
  - GHS Rev.9: Eye Irrit. 4, Skin Irrit. 4, STOT-SE 4
  - IMDG/IATA/ADR: Non-hazardous goods for transport
  - FAO/WHO (Codex Alimentarius): Approved food flavoring agent (FAO/WHO, 1998)
- **Industry Standards**: Comply with ISO 9001 (quality management), ISO 14001 (environmental management), ISO 22000 (food safety) and GMP (pharmaceutical/cosmetic) standards.

15.2 Other Regulations

- The product label/packaging must be marked with product name, grade, batch number, shelf life, dosage, usage method and manufacturer information in accordance with food/cosmetic/pharmaceutical product regulations; food/cosmetic/pharmaceutical grade products must be marked with the corresponding grade logo and compliance standards.
- All batch production records, test reports and COA must be retained for ≥5 years in accordance with regulatory requirements; food/cosmetic/pharmaceutical grade production workshops must meet GMP clean standards.
- The production process complies with environmental protection requirements, no waste gas, wastewater and solid waste discharge exceeding the standard; the product meets the international natural flavor/cooling agent quality standards for food/cosmetic/pharmaceutical/industrial use.

SECTION 16: Other Information

16.1 Further Information

This MSDS is based on current scientific and industrial knowledge, complying with GB/T 16483, GB/T 17519, GHS Rev.9 and international food/cosmetic/pharmaceutical/industrial safety standards. It is intended for the safe handling, storage, transport and disposal of Natural L-Menthol. The supplier is not liable for any personal injury, property damage or environmental pollution caused by improper handling, non-compliance with storage/transport/disposal requirements, unauthorized use or use beyond the specified dosage.

16.2 MSDS Validity

This MSDS is valid for 3 years from the revision date (28 FEB 2026) unless the product formula, production process or hazard information changes.

16.3 Technical Support

For product application (dosage adjustment, formulation optimization for food/cosmetic/pharmaceutical/industrial industries), melting process design and raw material compounding guidance, contact the natural flavor & cooling agent technical department at +86-021-50350029 ext. 888 (for licensed manufacturers and research institutions only).