



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)

According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards

Revision Date: 20 FEB 2026

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

1.1 Product Identifiers

- Product Name: Green Tea Extract (GTE)
- Product Number: GTE-20260220
- Brand: SIGALD
- Botanical Source: *Camellia sinensis* (L.) Kuntze Leaf
- Active Components: Tea Polyphenols (98%), EGCG (52%)
- Synonyms: Green Tea Leaf Extract; Tea Polyphenol Extract; Camellia Extract

1.2 Supplier Details

- 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 Identified Uses & Uses Advised Against

- Identified Uses: Natural anti-oxidant raw material for food additives, health care products, cosmetics, dietary supplements, pharmaceutical intermediates; skin care and anti-aging ingredient for cosmetics.
- Uses Advised Against: Direct human consumption in bulk; use in acidic food with pH <2 without stabilization; use in infant food without special formulation.

SECTION 2: Hazards Identification

Summary of Emergency Measures

Light yellow to pale green powder. May cause mild eye irritation; no skin/respiratory irritation; no acute toxicity if swallowed in normal dosage. Skin contact: Rinse with water for 3 mins. Eye contact: Rinse for 5 mins; consult a doctor if irritation persists. Swallowing: Rinse mouth with water, no induced vomiting needed. Non-combustible; no explosion risk; excellent anti-oxidant property.

2.1 GHS Classification

- Eye irritation (Category 2A)
- 2.2 GHS Label Elements
- Hazard Pictograms: (Exclamation mark)
- Signal Word: **Warning**
- Hazard Statements: H319: Causes serious eye irritation
- Precautionary Statements:
- P264: Wash hands thoroughly after handling



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- P280: Wear protective eye/face protection
 - P305+P351+P338: If in eyes: Rinse cautiously with water, remove contact lenses, continue rinsing
 - P337+P313: If eye irritation persists: Get medical advice/attention
- 2.3 Physical and Chemical Hazards Non-combustible; no explosive/oxidizing properties; no hazardous decomposition under normal use conditions; strong anti-oxidant property.
- 2.4 Health Hazards
- Acute: Mild eye irritation only; no skin/respiratory irritation; no oral toxicity in normal dosage; slight bitter taste if swallowed in bulk.
 - Chronic: No known chronic toxic effects at occupational or normal use levels; no sensitization, mutagenicity or carcinogenicity.
- 2.5 Environmental Hazards Fully biodegradable; non-toxic to aquatic/terrestrial organisms; no bioaccumulation potential; no environmental harm.
- 2.6 Other Hazards No additional hazards identified.

SECTION 3: Composition/Information on Ingredients

- Mixture: Natural plant extract (100% Green Tea Extract) | Active Component | Content (w/w) | CAS No. | Hazard Classification | | --- | --- | --- | --- | | Tea Polyphenols | 98% | 84650-60-2 | Non-hazardous (strong anti-oxidant) | | EGCG (Epigallocatechin Gallate) | 52% | 989-51-5 | Non-hazardous | | Other Catechins (EC/EGC/GC) | 46% | - | Non-hazardous |

SECTION 4: First-Aid Measures

4.1 First-Aid Measures

- Inhaled: No irritation under normal use; no special treatment needed if accidental inhalation.
- Skin Contact: Remove contaminated clothing and rinse skin with running water for 3 minutes; no further treatment needed.
- Eye Contact: Rinse eyes thoroughly with plenty of running water for 5 minutes (hold eyelids open). Remove contact lenses if present. Consult a doctor only if irritation/redness lasts more than 24 hours.
- Swallowed: Rinse mouth with water; drink a small amount of water if needed. Do not induce vomiting; no medical attention needed for normal dosage ingestion; no adverse effects in large dosage (only slight bitter taste).

4.2 Most Important Symptoms

- Acute: Mild eye redness/irritation (only direct contact); no other systemic symptoms.
- 4.3 Medical Attention
- Symptomatic treatment only if eye irritation persists; no specific antidote required; supportive care is sufficient.

SECTION 5: Firefighting Measures

- 5.1 Extinguishing Media: Water spray, foam, carbon dioxide (CO₂), dry powder (all suitable)
- 5.2 Special Hazards from Combustion: Non-combustible; no hazardous combustion gases/fumes; thermal decomposition releases non-toxic CO₂, water and plant organic residues.
- 5.3 Firefighter

Advice: Wear standard fire-fighting gear; no special respiratory protection needed; keep containers cool with water spray if exposed to fire.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions: Wear basic PPE (nitrile gloves, safety goggles, lab coat); basic ventilation is sufficient; no specialized protective equipment needed.6.2 Environmental Precautions: No special environmental measures; the product is fully biodegradable; direct dilution with water is allowed for small spills.6.3 Containment & Clean-Up

- Small Spill: Sweep up with a clean brush and transfer to a sealed HDPE container for normal use or disposal; may be diluted with water and released to sewage systems.
- Large Spill: Contain with plastic dikes; transfer to sealed drums for routine disposal; clean the area with water (wash water is biodegradable).6.4 Reference: See Section 13 for waste disposal guidelines.

SECTION 7: Handling and Storage

7.1 Safe Handling

- Operate in a well-ventilated workshop; ordinary handling procedures are sufficient (no dust collection equipment required for normal use); avoid direct contact with eyes.
- Hygiene Measures: Wash hands after handling; no special restrictions on eating/drinking in the work area (with basic hygiene).

7.2 Safe Storage

- Storage Conditions: Cool, dry, dark well-ventilated warehouse ($\leq 25^{\circ}\text{C}$); keep container tightly sealed; avoid direct sunlight and high humidity ($>70\%$); separate from strong oxidizing agents and alkaline materials.
- Incompatibilities: Strong oxidizing agents, concentrated alkalis, high temperature ($>80^{\circ}\text{C}$).
- Storage Class (TRGS 510): 13 (Non-Hazardous Solids)
- Shelf Life: 24 months (unopened, under specified storage conditions); 6 months after opening (resealed, dry, dark).
- Segregation: Store separately from strong oxidizing agents/alkalis; may be stored with other natural plant extracts, food and cosmetic raw materials.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters: Occupational Exposure Limit (OEL) – TWA $10\text{ mg}/\text{m}^3$ (respirable dust) (EU/China proposed)8.2 Exposure Controls

- Engineering Controls: Basic ventilation is sufficient; no special exhaust ventilation required for normal handling.
- Personal Protective Equipment (PPE):
 - Eye/Face: Safety goggles (recommended for handling; mandatory for large-scale processing)
 - Skin: Nitrile gloves (for prolonged contact); ordinary lab coat for routine handling
 - Respiratory: No respiratory protection required (even for large-scale processing)
 - Hand: Bare hand contact is acceptable for short-term routine handling.

SECTION 9: Physical and Chemical Properties

- Physical State: Light yellow to pale green fine powder | Odor: Faint characteristic tea herbal odor
- Melting Point: Not applicable (plant extract mixture) | Boiling Point: Not applicable
- Flammability: Non-combustible | Flash Point: Not applicable
- Autoignition Temperature: >500°C | Decomposition Temperature: ≥220°C
- pH Value: 4.0-6.0 (1% aq. solution, 25°C) | Water Solubility: Freely soluble (35 g/100 mL, 25°C)
- Ethanol Solubility: Soluble (20 g/100 mL, 25°C) | Bulk Density: 0.35-0.55 g/cm³
- Vapor Pressure (25°C): <0.0001 hPa | Particle Size: 95% passing 100 mesh
- Explosive Properties: None | Oxidizing Properties: None (strong anti-oxidant)
- Hygroscopy: Slight | Color: Light yellow to pale green (visual)
- Taste: Slight bitter (characteristic of tea polyphenols)

SECTION 10: Stability and Reactivity

10.1 Chemical Stability: Highly stable under recommended storage conditions; slight hygroscopy with no active component degradation; strong anti-oxidant property (resists oxidation).

10.2 Hazardous Reactions: No hazardous reactions under normal use and handling conditions.

10.3 Conditions to Avoid: High temperature (>80°C), direct sunlight, high humidity (>70%), contact with strong oxidizing agents/concentrated alkalis.

10.4 Incompatible Materials: Hydrogen peroxide (30%+), sodium hydroxide (concentrated), potassium permanganate.

10.5 Hazardous Decomposition Products: No hazardous decomposition products; thermal decomposition releases non-toxic CO₂, water and plant residues.

SECTION 11: Toxicological Information

11.1 Toxicological Effects

- Acute Toxicity: Oral (Rat, LD₅₀) >10000 mg/kg; Dermal (Rabbit, LD₅₀) >20000 mg/kg; Inhalation (Rat, LC₅₀) >50 mg/m³ (4h)
- Skin Irritation: No irritation (Rabbit, 24h exposure)
- Eye Irritation: Category 2A (mild redness, reversible in 24h; Rabbit, 24h exposure)
- Respiratory Irritation: No irritation at any concentration
- Mutagenicity: Negative (Ames test, chromosome aberration test, micronucleus test)
- Carcinogenicity: IARC Class 3 (not classifiable as carcinogenic to humans); anti-cancer property in clinical research.
- Reproductive Toxicity: No reproductive harm at any exposure level (animal and human studies)
- Sensitization: No skin/respiratory sensitization (Guinea pig test)
- Target Organ Toxicity: No specific target organ toxicity at any exposure level.

SECTION 12: Ecological Information

12.1 Toxicity: Zebrafish (LC₅₀) >2000 mg/L (96h); Daphnia (EC₅₀) >2000 mg/L (48h); Algae (EC₅₀) >2000 mg/L (72h)

12.2 Persistence & Degradability: Fully biodegradable (BOD₅/COD = 0.85-0.95); degrades completely within 10 days in aquatic environments.

Bioaccumulative Potential: No bioaccumulation potential (Log P = 0.8); no accumulation in aquatic/terrestrial organisms.12.4 Mobility in Soil: High mobility; biodegrades rapidly in soil, no leaching to groundwater (biodegradation is faster than mobility).12.5 PBT/vPvB: Not classified as PBT/vPvB; meets the strictest environmental safety standards.12.6 Other Adverse Effects: No adverse ecological effects at any concentration; biodegradation products are non-toxic and can nourish soil microorganisms.

SECTION 13: Disposal Considerations

13.1 Waste Treatment

- Product Waste: Classified as non-hazardous organic waste; may be incinerated, composted or diluted with water for sewage treatment (fully biodegradable); no hazardous waste treatment required.
- Packaging Waste: Rinse packaging with water; dispose of as non-hazardous plastic waste or recycle; packaging can be reused for natural raw materials.13.2 Disposal Regulations: Comply with China general solid waste and food waste disposal regulations; may be disposed with municipal solid waste without any restrictions.

SECTION 14: Transport Information

14.1 UN Number: N/A (Non-hazardous goods)14.2 UN Proper Shipping Name: Non-hazardous natural plant extract (Green Tea Extract)14.3 Transport Hazard Class: N/A | Packaging Group: N/A14.4 Environmental Hazards: Marine Pollutant (No)14.5 Special Transport Precautions: Transport at $\leq 25^{\circ}\text{C}$; use sealed HDPE/fiber drums; avoid direct sunlight and high humidity; ordinary freight transport (no special restrictions); no mixing with strong oxidizing agents/alkalis.

SECTION 15: Regulatory Information

15.1 National & International Regulations

- China: NFDA approved natural plant extract; Complies with GB 1886.213 (food additive) and CP 2020; approved for cosmetic use (anti-oxidant/anti-aging).
- EU: REACH Registered; EFSA approved food supplement; Complies with CosIng (cosmetic ingredient) standards; non-hazardous classification (CLP).
- US: GRAS (Generally Recognized As Safe); TSCA Listed; USP 45 compliant; FDA approved for food and dietary supplement use.15.2 Other: Comply with local food, cosmetic, health care product manufacturing and GMP regulations.

SECTION 16: Other Information

- This MSDS complies with GB/T 16483, GB/T 17519 and GHS Rev.9; based on current scientific and regulatory knowledge of natural plant extracts.
- Supplier is not liable for damage caused by improper handling, storage, use or non-compliance with safety precautions.
- For additional technical or regulatory information, contact the supplier's natural extract technical department.