

Material Safety Data Sheet

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Epigallocatechin Gallate (EGCG)

Synonym: Epigallocatechin Gallate; EGCG

CAS No.: 989-51-5

EC No.: 479-560-7

Molecular Formula: C₂₂H₁₈O₁₁

Molecular Weight: 458.37 g/mol

Assay: 98.22%

Physical Form: Off-White Powder

Country of Origin: India

Botanical Source: *Camellia sinensis* (Green Tea)

Recommended Use: Raw material for cosmetic, personal-care, food, nutraceutical, research and formulation applications, subject to applicable regulatory requirements.

Restrictions on Use: Do not use for any purpose inconsistent with the product specification or applicable regulations.

Supplier: Botanic Planet Canada Inc.

Address: 2 Bram Crt Unit # 3-4 Brampton, Ontario, Canada

Telephone number: 905-455-4444

Emergency phone number (613)-996-6666 CANUTEC 24 HOUR EMERGENCY

SECTION 2 — HAZARD IDENTIFICATION

Published SDS information for EGCG identifies potential acute oral toxicity, eye irritation, skin sensitization and aquatic hazards.

GHS Classification:

- Acute Toxicity — Oral, Category 4
- Serious Eye Irritation, Category 2
- Skin Sensitization, Category 1
- Hazardous to the Aquatic Environment — Chronic, Category 2

Signal Word:

WARNING

Hazard Statements:

- H302: Harmful if swallowed.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H411: Toxic to aquatic life with long-lasting effects.

Precautionary Statements:

- Avoid breathing dust.

- Wash hands thoroughly after handling.
- Wear protective gloves and eye protection.
- Avoid release to the environment.
- IF SWALLOWED: Call a physician/poison centre if you feel unwell.
- IF ON SKIN: Wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes.
- Dispose of contents/container according to local regulations.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Concentration
Epigallocatechin Gallate (EGCG)	989-51-5	≥98.0%
Other naturally occurring		≤2.0%
Chemical Name: Epigallocatechin-3-O-gallate		

SECTION 4 — FIRST-AID MEASURES

Inhalation

Move person to fresh air. Keep at rest in a comfortable position for breathing. Seek medical attention if irritation or other symptoms persist.

Skin Contact

Remove contaminated clothing. Wash affected area thoroughly with soap and water. Seek medical attention if irritation or allergic reaction develops.

Eye Contact

Immediately rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

Ingestion

Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Contact a physician or poison control centre if the person feels unwell.

Most Important Symptoms

May cause gastrointestinal discomfort if swallowed. Dust may cause eye or respiratory irritation. May cause an allergic skin reaction.

SECTION 5 — FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable Extinguishing Media:

No specific restrictions known.

Specific Hazards:

Organic powder may produce combustible dust when dispersed in air. Thermal decomposition may produce carbon oxides and other irritating fumes.

Protective Equipment:

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Avoid generating airborne dust.

Wear suitable personal protective equipment. Prevent material from entering drains, waterways or soil.

Carefully collect spilled material using methods that minimize dust generation. Place in a suitable, closed container for **disposal or recovery**.

Clean the affected area thoroughly after collection.

SECTION 7 — HANDLING AND STORAGE

Handling

- Avoid inhalation of dust.
- Avoid contact with eyes and prolonged skin contact.
- Use appropriate ventilation.
- Wash hands after handling.
- Keep containers closed when not in use.

Storage

Store in a cool, dry and well-ventilated area.

Protect from:

- Direct sunlight
- Excessive heat
- Moisture
- Oxygen/air exposure where practical

Keep container tightly closed.

EGCG is generally recommended to be protected from light, and some supplier documentation recommends cold storage for analytical material.

Recommended Storage: 2–8°C for long-term storage, unless the supplier's specification states otherwise.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

No specific occupational exposure limit established for EGCG.

Engineering Controls

Provide adequate ventilation. Local exhaust ventilation is recommended when handling the powder in quantities that may generate dust.

Personal Protective Equipment

Eye Protection: Safety glasses with side shields.

Hand Protection: Protective gloves.

Skin Protection: Appropriate protective clothing.

Respiratory Protection: If dust concentrations may exceed acceptable exposure levels, use an appropriate particulate respirator.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification / Typical Value
Appearance	Off-White Powder
Odour	Characteristic / Slight
Assay	98.22%
Molecular Formula	C ₂₂ H ₁₈ O ₁₁
Molecular Weight	458.37 g/mol
CAS Number	989-51-5
Solubility	Soluble/partially soluble depending on medium
pH	Not determined
Melting Point	Approximately 216–218°C
Flash Point	Not applicable
Relative Density	Not determined
Vapour Pressure	Not applicable
Flammability	Not determined
Particle Size	100% Pass 80 Mesh

The molecular formula, molecular weight and CAS number are consistent with published EGCG specifications.

SECTION 10 — STABILITY AND REACTIVITY

Reactivity: No hazardous reaction expected under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Conditions to Avoid:

Excessive heat, moisture, direct light and prolonged exposure to air.

Incompatible Materials:

Strong oxidizing agents and strong acids/bases.

Hazardous Decomposition Products:

Carbon oxides and potentially irritating organic decomposition products may be produced during combustion or thermal decomposition.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Toxicity

Harmful if swallowed based on available classification information for EGCG.

Skin Corrosion/Irritation

May cause irritation. Skin sensitization is identified in some published SDS classifications.

Serious Eye Damage/Irritation

Causes serious eye irritation.

Respiratory Sensitization

No definitive classification available for this product based on the information used for this SDS.

Germ Cell Mutagenicity

No classification available.

Carcinogenicity

No classification available.

Reproductive Toxicity

No classification available.

STOT — Single Exposure

No classification available.

STOT — Repeated Exposure

No classification available.

Aspiration Hazard

Not expected to present an aspiration hazard in normal handling of the solid powder.

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicity:

EGCG has been classified by some suppliers as hazardous to aquatic life with long-lasting effects.

Persistence and Degradability:

Data not available.

Bioaccumulative Potential:

Data not available.

Mobility in Soil:

Data not available.

Other Adverse Effects:

Avoid uncontrolled release into waterways.

SECTION 13 — DISPOSAL CONSIDERATIONS

Dispose of product and contaminated packaging in accordance with applicable federal, provincial and local regulations.

Do not discharge large quantities into drains or waterways.

Empty containers should be handled according to applicable waste-disposal requirements.

SECTION 14 — TRANSPORT INFORMATION

UN Number: Not regulated / Not assigned

UN Proper Shipping Name: Not regulated

Transport Hazard Class: Not regulated

Packing Group: Not applicable

Environmental Hazard: Product may be hazardous to aquatic organisms according to certain GHS classifications.

TDG (Canada): Not regulated as a dangerous good for transport in the quantities and form supplied, subject to applicable transport requirements.

SECTION 15 — REGULATORY INFORMATION

This product should be handled in accordance with applicable Canadian workplace safety, environmental and product-specific regulations.

WHMIS: Classification should be determined based on the applicable Canadian SDS/HPR requirements and the final supplier hazard assessment.

GHS Classification:

Acute Toxicity — Oral Category 4

Eye Irritation Category 2

Skin Sensitization Category 1

Aquatic Chronic Category 2

Published Canadian SDS information for EGCG uses these classifications under the Canadian Hazardous Products Regulations.

SECTION 16 — OTHER INFORMATION

Product: Epigallocatechin Gallate (EGCG)

CAS: 989-51-5

Assay: 98.22%

Origin: India

Revision Date: September 1, 2030



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