Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108

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Product and Company Identification

Product Code:

Product Name:

Epigalkocatechin Gallate Manufacturer Information

Company Name: Cayman Chemical Company

(800)364-9897 Emergency Contact: Cayman Chemical Company Information: Cayman Chemical Company (734)971-3335

Chemical Family: Inhibitors CAS Number: 989-51-5 RTECS #: KB5200000

Synonyms: 3,4-dihydro-5,7-dihydroxy-2R-(3,4,5-trihydroxyphenyl)-2H-1-benzo pyran-3R-yl-3,4,5-trihydroxy-benzoate; EGCG; Tea catechin;

Composition/Information on Ingredients

OSHA PEL CAS# Hazardous Components (Chemical Name) Percentage ACGIH TLV

Other Limits (-)-Epigallocatechin gallate from green tea 989-51-5 100.0 % No data. No data. No data.

Hazards Identification

Emergency Overview: No data available.

Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection Route(s) of Entry: Potential Health Effects (Acute and Chronic): Material may be irritating to the muccous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation.

The toxicological properties of this compound have not been fully evaluated. Oral LD50 (mouse): 2170 mg/kg

LD 50/LC 50:

Signs and Symptoms Of Exposure: No data available.

First Aid Measures Emergency and First Aid Procedures: If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

personnel. Get immediate medical attention.

In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.

In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. Fire Fighting Measures

Flash Pt: No data.

Unsuitable Extinguishing Media:

Explosive Limits: LEL: No data. UEL: No data. Autoignition Pt: No data.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Flammable Properties and Hazards: Emits toxic fumes under fire conditions. Extinguishing Media:

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray when fighting fires involving this material.

ANSI Z400.1 Format

Epigallocatechin Gallate

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No data available. Accidental Release Measures

Wear a NIOSH/MSHA approved self-contained breathing apparatus and appropriate personal Steps To Be Taken In Case Material Is Released Or Spilled: protection (rubber boots, safety goggles, and heavy rubber gloves). Vacuum or sweep up material and place in disposal container. Avoid raising dust. After removal, ventilate contaminated area and flush thoroughly with water.

Handling and Storage Hazard Label Information: Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation.

Wash thoroughly after handling. Precautions To Be Taken in Handling: Avoid breathing (dust, vapor, mist, gas).

Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling. Precautions To Be Taken in Storing: Keep tightly closed.

Store at correct temperature. Other Precautions: Light sensitive. Exposure Controls/Personal Protection

Protective Equipment Summary - Hazard Eye wash station in work area Lab coat Latex disposable gloves. Safety glasses. Label Information: shower in work area Vent Hood

Respiratory Equipment (Specify Type): No data available. Eye Protection: Safety glasses

Protective Gloves: Latex disposable gloves Other Protective Clothing: Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits. Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Wash thoroughly after handling.

*PBS pH 7.2, sol. in EtOH, DMSO, & DMF

Physical and Chemical Properties

[] Liquid [X] Solid [] Gas Melting Point: No data. No data. **Boiling Point:**

Autoignition Pt: No data. Flash Pt: No data. Method: Explosive Limits: LEL: No data.

Physical States:

Other Solubility Notes:

Percent Volatile:

Molecular Weight:

Hazardous Polymerization:

Carcinogenicity:

Carcinogenicity/Other Information:

Hazardous Components (Chemical Name)

1. (-)-Epigallocatechin gallate from green tea.

For research use only, not for human or veterinary clinical use.

UEL: No data. Specific Gravity (Water = 1): No data.

Vapor Pressure (vs. Air or mm Hg): No data Vapor Density (vs. Air = 1): No data. Evaporation Rate (vs Butyl Acetate=1): No data. Solubility in Water: 25 mg/ml* at 25.0 C

No data.

Corrosion Rate: No data. Formula: C22H18O11

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OSHA Regulated? No

Sec.313 (TRI)

No

No

Sec.110

ANSI Z400.1 Format

Nο

ANSI Z400.1 Format

458.40 No data.

Appearance and Odor: A crystalline solid Stability and Reactivity Stable [X] Stability: Unstable []

Conditions To Avoid - Instability: protect from light protect from moisture Incompatibility - Materials To Avoid: strong oxidizing agents Hazardous Decomposition Or Byproducts: carbon dioxide

Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous No data available. Polymerization:

carbon monoxide

No data available.

NTP? No

Toxicological Information Toxicological Information: The toxicological effects of this compound have not been thoroughly studied.

Ecological Information Runoff from fire control or dilution water may cause pollution.

Ecological Information: Disposal Considerations

Waste Disposal Method: Dispose in accordance with local, state and federal regulations. Transport Information

IARC Monographs? No

LAND TRANSPORT (US DOT) DOT Proper Shipping Name: No data available.

Transport in accordance with local, state, and federal regulations. Additional Transport Information:

Regulatory Information US EPA SARA Title III

989-51-5 No

US EPA CAA, CWA, TSCA Hazardous Components (Chemical Name) CAS# EPA CAA EPA CWA NPDES EPA TSCA CA PROP 65 1. (-)-Epigallocatechin gallate from green tea. 989-51-5 No Nο

Sec.302 (EHS)

No

Other Information Company Policy or Disclaimer

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