MATERIAL SAFETY DATA SHEET

ent-Corey Lactone Diol

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

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Date Created: 09/12/2007

1. Product and Company Identification

Product Code: 10009643

Product Name: ent-Corey Lactone Diol

Manufacturer Information

Company Name: Cayman Chemical Company

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

Chemical Family:MiscellaneousCAS Number:76704-05-7

Synonyms: (3aS,4R,5S,6aR)-hexahydro-5-hydroxy-4-(hydroxymethyl)-2H-Cyclope nta[b]furan-2-one; Corey

Diol-A(+);

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS#	Concentration	OSHA PEL	ACGIH TLV	Other Limits
ent-Corey Lactone Diol	76704-05-7	100.0 %	No data.	No data.	No data.

Hazards Identification

Emergency Overview: No data available.

Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection

Potential Health Effects (Acute and Chronic): Material may be irritating to the mucous 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.

Signs and Symptoms Of Exposure: No data available.

4. 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

personnel. Get immediate medical attention.

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.

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.

5. Fire Fighting Measures

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: 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: No data available

Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray when fighting fires

involving this material.

Unsuitable Extinguishing Media: No data available.

ANSI Z400.1 Format

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Accidental Release Measures

Steps To Be Taken In Case Material Is

Released Or Spilled:

Wear a NIOSH/MSHA approved self-contained breathing apparatus and appropriate personal

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.

7. 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: Store at correct temperature.

8. Exposure Controls/Personal Protection

Protective Equipment Summary - Hazard

Eye wash station in work area Lab coat Latex disposable gloves Safety glasses

shower in work area Vent Hood

Respiratory Equipment (Specify Type):

No data available. Safety glasses

Protective Gloves:

Eye Protection:

Label Information:

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

UEL: No data.

safety shower.

Wash thoroughly after handling.

9. Physical and Chemical Properties

Physical States:

[] Gas No data. [] Liquid [X] Solid

Melting Point: Boiling Point:

No data.

Autoignition Pt:

No data.

Flash Pt:

No data. Method:

Explosive Limits:

LEL: 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): Solubility in Water:

No data.

10 mg/ml* at 25.0 C

Other Solubility Notes:

*PBS pH 7.2, also sol. in EtOH, DMSO & DMF, see product insert.

Percent Volatile: Corrosion Rate:

Formula:

No data.

C8H12O4

Molecular Weight:

172.20 No data.

Appearance and Odor:

A crystalline solid

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10. Stability and Reactivity									
Stability:	Unstable [] Stable [X]								
Conditions To Avoid - Instability:	No data available.								
Incompatibility - Materials To Avoid:	No data available.								
Hazardous Decomposition Or Byproducts:	No data available.								
Hazardous Polymerization:	Will occur [] Will not occur [X]								
Conditions To Avoid - Hazardous	No data available.								
Polymerization:									
11. Toxicological Information									
Toxicological Information:	The toxicological effects of this compound have not been thoroughly studied.								
Carcinogenicity/Other Information:	No data available.								
Carcinogenicity:	NTP? No IA	ARC Monographs? N	o OSHA Regulat	ted? No					
12. Ecological Information									
Ecological Information:	Runoff from fire control or dilution water may cause pollution.								
13. Disposal Considerations									
Waste Disposal Method:	Dispose in accordance with local, state and federal regulations.								
14. Transport Information									
LAND TRANSPORT (US DOT)									
DOT Proper Shipping Name	No data available.								
Additional Transport Information:	Transport in accordance with local, state, and federal regulations.								
15. Regulatory Information									
US EPA SARA Title III									
Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110				
ent-Corey Lactone Diol	76704-05-7	No	No	No	No				
US EPA CAA, CWA, TSCA									
Hazardous Components (Chemical Name)	CAS#	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65				
ent-Corey Lactone Diol	76704-05-7	No	No	No	No				
16. Other Information									

Company Policy or Disclaimer

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