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MATERIAL SAFETY DATA SHEET

This form complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

IDENTITY (As Used on Label and List): **Ciprostone (calcium salt)**

SECTION I - Product Identification Ciprostone (calcium salt)

Manufacturer Name and Address:

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

Telephone Numbers:

Cayman Chemical (800) 364-9897
Cayman Chemical (734) 971-3335

Date Entered: 09/26/97 Last Revision: 07/02/98 MSDS Printed: 10/01/99

Trade Name: U-61431F

Synonyms:

Ciprostone calcium; Pentanoic acid, 5-[hexahydro-5-hydroxy-6-(3-hydroxy-1-octenyl)-3a-methyl-2(1H)-pentalenylidene]-, calcium salt (2:1), [3aS-{2z,3aà,5á,6à(1E,3R*), 6aà}]-

Chemical Family: Prostaglandin

Hazard Label:

Molecular Formula: (C22H36O4)2 Ca+ Molecular Weight: 383.60

NFPA Ratings: (0-4) NFPA Specific Hazards

Health: 2

Flammability: 0

Reactivity: 0

SECTION II - Hazardous Ingredients/Identity Information Ciprostone (calcium salt)

Hazardous Components (Specific Chemical Identity/Common Name)	CAS #
Ciprostone (calcium salt)	81703-55-1

CAS #	OSHA PEL	ACGIH TLV	Other Limits	Percentage
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81703-55-1

100.0

SECTION III - Physical/Chemical Characteristics Ciprostone (calcium salt)

Boiling Point: . . . NE or NA

Melting Point: . . .

Specific Gravity: . . . NE or NA (Water = 1)

Vapor Pressure: . . . NE or NA (mm Hg)

Vapor Density: . . . NE or NA (Air = 1)

Physical States: . . . [] Gas , [] Liquid , [X] Solid

Evaporation Rate: . . . NE or NA (Butyl Acetate = 1)

Solubility In Water: . . . 0.2 mg/ml at 25.0C Other: Also soluble in Ethanol, DMSO, DMF

Percent Volatile: . . . NE or NA

Appearance and Odor:

A crystalline solid.

SECTION IV - Fire and Explosion Hazard Data Ciprostone (calcium salt)

Flash Pt: NE or NA Method Used:

Explosive Limits: LEL: UEL: Autoignition Pt: NE or NA

Extinguishing Media:

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

Special Fire Fighting Procedures:

Unusual Fire and Explosion Hazards:

SECTION V - Reactivity Data Ciprostone (calcium salt)

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability:

Incompatibility - Materials To Avoid:

Hazardous Decomposition Or Byproducts:

Hazardous Polymerization: May occur [] Will not occur [X]

Conditions To Avoid - Hazardous Polymerization:

SECTION VI - Health Hazard Data Ciprostone (calcium salt)

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

Health Hazards (Acute and Chronic):

Increased heart rate; decreased blood pressure. Hypotension, headache, facial flushing, nausea, diarrhea, skin or eye irritation, abdominal colic, shortness of breath, dizziness, restlessness, vomiting, jaw pain. Overexposure may cause adverse reproductive effects in males and/or females.

Carcinogenicity: NTP? No , IARC Monographs? , OSHA Regulated?

Carcinogenicity/Other Information:

Recommended Exposure Limits:

LD 50/LC 50: LD50 (rat): 50 mg/kg

Signs and Symptoms Of Exposure:

Irritating to the nose, throat and respiratory tract.

Medical Conditions Generally Aggravated By Exposure:

Emergency and First Aid Procedures:

Flush eye with water for 15 minutes. Get medical attention. Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SECTION VII - Precautions for Safe Handling and Use Ciprostone (calcium salt)

Steps To Be Taken In Case Material Is Released Or Spilled:

Treat the spill with acid for 3-5 minutes. Degrade with 1:1 dilution of bleach and water for one hour. After removal, flush contaminated area thoroughly with water.

Waste Disposal Method:

Dispose in accordance with local, state and federal regulations.

Hazard Label Information: Avoid contact with skin and eyes. Do not store in direct sunlight. Do not reuse this container. Wash thoroughly after handling.

Precautions To Be Taken in Handling and Storing:

Do not breath (dust, vapor, mist, gas). Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling.

Other Precautions:

SECTION VIII- Control Measures Ciprostone (calcium salt)

Protective Equipment Summary - Hazard Label Information Latex disposable gloves Safety glasses

Respiratory Equipment (Specify Type):

Ventilation:

Good general ventilation should be sufficient to control airborne levels.

Eye Protection:

Safety glasses

Protective Gloves:

Latex disposable gloves

Other Protective Clothing:

Work/Hygienic/Maintenance Practices:

Wash thoroughly after handling.

SECTION IX - Additional Comments Ciprostone (calcium salt)

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