MATERIAL SAFETY DATA SHEET

Bimatoprost

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

Printed: 07/08/2005 Revision: 07/06/2005

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Supercedes Revision: 02/20/2002

Date Created: 06/27/1996

1. Product and Company Identification

Product Code: 16820 **Product Name: Bimatoprost**

Manufacturer Information

Company Name: Cayman Chemical Company

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

Chemical Family: Prostaglandins & Thromboxanes

CAS Number: 155206-00-1

Synonyms: N-ethyl-9.alpha.,11.alpha.,15S-trihydroxy-17-phenyl-18,19,20-

trinor-prosta-5Z,13E-dien-1-amide; 17-phenyl trinor Prostaglandin

F2.alpha. ethyl amide

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS#	Percentage	OSHA PEL	ACGIH TLV	Other Limits
17-phenyl trinor Prostaglandin F2.alpha. ethyl	155206-00-1	100.0 %	No data.	No data.	No data.
amide					

3. Hazards Identification

Emergency Overview: No data available.

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

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.

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.

Fire Fighting Measures

Flash Pt: No data.

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

Autoignition Pt:

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

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Unsuitable Extinguishing Media: No data available. Accidental Release Measures Steps To Be Taken In Case Material Is Wear a NIOSH/MSHA approved self-contained breathing apparatus and appropriate personal 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. 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 **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: Lab coat **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. 9. Physical and Chemical Properties **Physical States:** [] Gas [] Liquid [X] Solid **Melting Point:** No data. **Boiling Point:** No data. **Autoignition Pt:** No data. Flash Pt: No data. Method: **Explosive Limits:** LEL: No data. 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: 300 ug/ml* at 25.0 C Other Solubility Notes: *PBS pH 7.2, sol. in EtOH, DMSO, & DMF **Percent Volatile:** N.A. Corrosion Rate: No data. Formula: C25H37NO4 Molecular Weight: 415.60 pH: No data.

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Appearance and Odor: A crystalline solid 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 IARC Monographs? No OSHA Regulated? No 12. Ecological Information Runoff from fire control or dilution water may cause pollution. **Ecological Information:** 13. Disposal Considerations **Waste Disposal Method:** Dispose in accordance with local, state and federal regulations. 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 1. 17-phenyl trinor Prostaglandin F2.alpha. ethyl 155206-00-1 No No No No amide US EPA CAA, CWA, TSCA **Hazardous Components (Chemical Name)** CAS# **EPA CAA EPA CWA NPDES EPA TSCA** CA PROP 65 1. 17-phenyl trinor Prostaglandin F2.alpha. ethyl 155206-00-1 No No amide **SARA (Superfund Amendments and** Reauthorization Act of 1986) Lists: Sec.302: EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. * indicates 10000 LB TPQ if not volatile. EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. ** indicates statutory RQ. Sec.304: EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category. Sec.313: Sec.110: EPA SARA 110 Superfund Site Priority Contaminant List **TSCA (Toxic Substances Control** Act) Lists: Chemical Subject to Significant New Rules (SNURS) 5A(2): 6A: Commercial Chemical Control Rules Toxic Substances Subject To Information Rules on Production 8A: 8A CAIR: Comprehensive Assessment Information Rules - (CAIR) Preliminary Assessment Information Rules - (PAIR) 8A PAIR:

Records of Allegations of Significant Adverse Reactions

Health and Safety Data Reporting Rule Terminations

Health and Safety Data Reporting Rules

8C:

8D: 8D TERM:

Other Important Lists:

ANSI Z400.1 Format

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CWA NPDES: EPA Clean Water Act NPDES Permit Chemical
CAA HAP: EPA Clean Air Act Hazardous Air Pollutant

CAA ODC: EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)

CA PROP 65: California Proposition 65

16. Other Information

Company Policy or Disclaimer

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

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.