MATERIAL SAFETY DATA SHEET Prostaglandin D2

Cayman Chemical Company 1180 E. Ellsworth Rd.

Printed: 09/08/2005 Revision: 08/10/2005

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Supercedes Revision: 01/29/2005

Date Created: 06/27/1996

1. Product and Company Identification

Product Code: 12010

Product Name: Prostaglandin D2

Manufacturer Information

Ann Arbor, MI 48108

Company Name: Cayman Chemical Company

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

Chemical Family: Prostaglandins & Thromboxanes

CAS Number: 41598-07-6 **RTECS #:** UK7930000

Synonyms: 9.alpha.,15S-dihydroxy-11-oxo-prosta-5Z,13E-dien-1-oic acid; PGD2

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS#	Percentage	OSHA PEL	ACGIH TLV	Other Limits
Prostaglandin D2	41598-07-6	100.0 %	No data.	No data.	No data.

3. 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): Harmful if swallowed.

Irritant.

Material is irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation or skin absorption.

May cause adverse reproductive effects in males and/or females.

May cause eye, skin, or respiratory system irritation.

May impair fertility.

The toxicological properties of this compound have not been fully evaluated.

Toxic.

LD 50/LC 50: Please refer to Section 11

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.

Autoignition Pt: No data.

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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.

Unsuitable Extinguishing Media: No data available.

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.

Handling and Storage

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

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.

Pregnant females should avoid exposure to this compound.

Use with adequate ventilation. Wash thoroughly after handling.

Precautions To Be Taken in Storing: Keep tightly closed.

Store at correct temperature.

Latex disposable gloves

8. Exposure Controls/Personal Protection

Protective Equipment Summary - Hazard

Label Information:

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

shower in work area Vent Hood

Respiratory Equipment (Specify Type):

Government approved respirator as conditions warrant.

Eye Protection:

Safety glasses **Protective 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.

9. Physical and Chemical Properties

[] Liquid [X] Solid **Physical States:** [] Gas

Melting Point: 56.00 C - 57.00 C

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: > 5 mg/ml*at 25.0 C Safety

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Other Solubility Notes: *PBS pH7.2, also sol in EtOH, DMSO & DMF

Percent Volatile:

Corrosion Rate:

No data.

Formula:

C20H32O5

Molecular Weight:

pH:

No data.

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: strong oxidizing agents

Hazardous Decomposition Or Byproducts: carbon dioxide

carbon monoxide

Hazardous Polymerization: Will occur $[\ X\]$

Conditions To Avoid - Hazardous

Polymerization:

No data available.

11. Toxicological Information

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

Chronic Toxicological Effects: Investigated as a mutagen and reproductive hazard.

May cause reproductive disorders. Effects on fertility (female fertility index)

Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information. Prostaglandin D2 RTECS Number: UK7930000

Carcinogenicity/Other Information: No data available.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? 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
Prostaglandin D2	41598-07-6	No	No	No	No

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name)	CAS#	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
1. Prostaglandin D2	41598-07-6	No	No	No	No

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.Sec.304:EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. ** indicates statutory RQ.Sec.313:EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.

Sec.110: EPA SARA 110 Superfund Site Priority Contaminant List

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TSCA (Toxic Substances Control

Act) Lists:

5A(2): Chemical Subject to Significant New Rules (SNURS)

6A: Commercial Chemical Control Rules

8A: Toxic Substances Subject To Information Rules on Production
 8A CAIR: Comprehensive Assessment Information Rules - (CAIR)
 8A PAIR: Preliminary Assessment Information Rules - (PAIR)
 8C: Records of Allegations of Significant Adverse Reactions

8D: Health and Safety Data Reporting Rules

8D TERM: Health and Safety Data Reporting Rule Terminations

Other Important Lists:

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.

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