



## MATERIAL SAFETY DATA SHEET

### SECTION 1. Chemical Product and Company Identification (R)-Butaprost

**Product Code:** 13745

**Product Name:** (R)-Butaprost

**Chemical Family:** Prostaglandins

**Synonyms**

9-oxo-11.alpha.,16R-dihydroxy-17-cyclobutyl-prost-13E-en-1-oic acid, methyl ester;  
TR 4978

**Manufacturer Name and  
Address:**

Cayman Chemical Company

1180 E. Ellsworth Rd.

Ann Arbor, MI. 48108

Cayman Chemical  
Company

Cayman Chemical  
Company

**Telephone  
Numbers:**

(800)364-9897

(734)971-3335

**Dates:**

Date Entered:  
11/03/2000

Revision: 03/10/2003

Printed: 03/11/2003

### SECTION 2. Composition/Information on Ingredients (R)-Butaprost

**Hazardous Components (Specific Chemical Identity/Common Name)**

**Name:** (R)-Butaprost

**CAS #:** NA

**OSHA PEL:** No data.

**Percentage:** 1.0 %

**ACGIH TLV:** No data.

**Name:** Methyl acetate {Methyl ester of acetic acid}

**CAS #:** 79-20-9

**OSHA PEL:** 8H TWA:200ppm (610 mg/m3)

**Percentage:** 99.0 %

**ACGIH TLV:** No data.

### SECTION 3. Hazards Identification (R)-Butaprost

**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)**

Contact may cause skin or eye irritation.

Material is 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.  
Repeated exposure may cause skin dryness or cracking.  
Vapors may cause drowsiness and dizziness.  
Vapors may have a strong offensive odor which may cause headaches, nausea and vomiting.  
The toxicological properties of this compound have not been fully evaluated.  
**Carcinogenicity:** NTP? No , IARC Monographs? No , OSHA Regulated? No

**Carcinogenicity/Other Information**

No data available.

**Signs and Symptoms Of Exposure**

Irritating to the skin, eyes, nose, throat, and respiratory tract.

## **SECTION 4. First Aid Measures (R)-Butaprost**

**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.

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.

**Note to Physician**

No data available.

**Medical Conditions Generally Aggravated By Exposure**

No data available.

## **SECTION 5. Fire Fighting Measures (R)-Butaprost**

**Flash Pt:** 15.00 F **Method Used:** See note below

**Explosive Limits:** LEL: 3.1% UEL: 16%

**Autoignition Pt:** 936.00 F **Extinguishing Media**

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

**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.

Note: Flammable as diluted in methyl acetate.

**Flammable Properties and Hazards**

Can release vapors that form explosive mixtures at temperatures at or above the flash point.

Container explosion may occur under fire conditions.

Emits toxic or corrosive fumes under fire conditions.

Flammable liquid.

Vapors can travel to a source of ignition and flash back.

**Hazardous Combustion Products**

carbon dioxide

carbon monoxide



## SECTION 9. Physical and Chemical Properties (R)-Butaprost

<b>Physical States:</b>	<input type="checkbox"/> Gas , <input checked="" type="checkbox"/> Liquid , <input type="checkbox"/> Solid
<b>Boiling Point:</b>	No data.
<b>Melting Point:</b>	No data.
<b>Specific Gravity (Water = 1):</b>	No data.
<b>Density:</b>	No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	No data.
<b>Vapor Density (vs. Air = 1):</b>	No data.
<b>Evaporation Rate (vs Butyl Acetate=1):</b>	No data.
<b>Solubility in Water:</b>	150 ug/ml* at 25.0 C
<b>Other Solubility Notes:</b>	*PBS pH 7.2, sol. in DMF, DMSO & EtOH
<b>Percent Volatile:</b>	No data.
<b>Saturated Vapor Concentration:</b>	No data.
<b>Viscosity:</b>	No data.
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>40</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	408.60
<b>pH:</b>	No data.
<b>Appearance and Odor</b>	
A clear, colorless solution	

## SECTION 10. Stability and Reactivity (R)-Butaprost

<b>Stability:</b> Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>
<b>Conditions To Avoid - Instability</b>
No data available.
<b>Incompatibility - Materials To Avoid</b>
No data available.
<b>Hazardous Decomposition Or Byproducts</b>
carbon dioxide carbon monoxide
<b>Hazardous Polymerization:</b> Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>
<b>Conditions To Avoid - Hazardous Polymerization</b>
No data available.

## SECTION 11. Toxicological Information (R)-Butaprost

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

### Chronic Toxicological Effects

No data available.

## SECTION 12. Ecological Information (R)-Butaprost

Runoff from fire control or dilution water may cause pollution.

### **SECTION 13. Disposal Considerations (R)-Butaprost**

**Waste Disposal Method**

Dispose in accordance with local, state and federal regulations.

### **SECTION 14. Transport Information (R)-Butaprost**

**DOT Proper Shipping Name**

Methyl acetate

**DOT Hazard Class:** 3

**DOT Hazard Label:** FLAMMABLE LIQUID

**UN/NA Number:** 1231

**Additional Transport Information**

Transport in accordance with local, state, and federal regulations.

### **SECTION 15. Regulatory Information (R)-Butaprost**

Regulatory information on this product is not available.

### **SECTION 16. Other Information (R)-Butaprost**

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.

---