



## MATERIAL SAFETY DATA SHEET

### SECTION 1. Chemical Product and Company Identification 2,3-dinor-8-iso Prostaglandin F2.alpha.

**Product Code:** 221664-05-7 , **Reference #:** 16290

**Product Name:** 2,3-dinor-8-iso Prostaglandin F2.alpha.

**Chemical Family:** Prostaglandins

**Synonyms**

9.alpha.,11.alpha.,15S-trihydroxy-2,3-dinor-(8.beta.)-  
prosta-5Z,13E-dien-1-oic acid;

2,3-dinor-iPF2.alpha.-III

**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:  
07/02/2002

Revision: 03/10/2003

Printed: 03/11/2003

### SECTION 2. Composition/Information on Ingredients 2,3-dinor-8-iso Prostaglandin F2.alpha.

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

**Name:** 2,3-dinor-8-iso Prostaglandin F2.alpha. {8-epi Prostaglandin

**CAS #:** 221664-05-7

**Percentage:** 0.01 %

**OSHA PEL:** No data.

**ACGIH TLV:** No data.

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

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

**Percentage:** 99.99 %

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

**ACGIH TLV:** No data.

### SECTION 3. Hazards Identification 2,3-dinor-8-iso Prostaglandin F2.alpha.

**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.  
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** **2,3-dinor-8-iso Prostaglandin F2.alpha.**

##### **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** **2,3-dinor-8-iso Prostaglandin F2.alpha.**

**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 and 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 6. Accidental Release Measures 2,3-dinor-8-iso Prostaglandin F2.alpha.**

### **Steps To Be Taken In Case Material Is Released Or Spilled**

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

After removal, ventilate contaminated area and flush thoroughly with water.

## **SECTION 7. Handling and Storage 2,3-dinor-8-iso Prostaglandin F2.alpha.**

### **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 contact with eyes, skin, and clothing.

Do not reuse this container.

Keep away from sources of ignition.

Use with adequate ventilation.

Wash thoroughly after handling.

### **Precautions To Be Taken in Storing**

Store at correct temperature.

### **Other Precautions**

No data available.

### **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.

## **SECTION 8. Exposure Controls/Personal Protection 2,3-dinor-8-iso Prostaglandin F2.alpha.**

### **Protective Equipment Summary - Hazard Label Information**

Eye wash station in work area    Lab coat    Latex disposable gloves

Safety glasses    Safety 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.)**

Good general ventilation should be sufficient to control airborne levels.

## **SECTION 9. Physical and Chemical Properties 2,3-dinor-8-iso Prostaglandin F2.alpha.**

|   |  |
|---|--|
| <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>                   | 10 mg/ml* at 25.0 C  |
| <b>Other Solubility Notes:</b>                | *PBS pH 7.2, sol. in EtOH, DMSO, & DMF   |
| <b>Percent Volatile:</b>                      | No data.   |
| <b>Saturated Vapor Concentration:</b>         | No data.   |
| <b>Viscosity:</b>                             | No data.   |
| <b>Molecular Formula:</b>                     | C18H30O5   |
| <b>Molecular Weight:</b>                      | 326.40   |
| <b>pH:</b>                                    | No data.   |
| <b>Appearance and Odor</b>                    |  |
| A clear, colorless solution                   |  |

### **SECTION 10. Stability and Reactivity 2,3-dinor-8-iso Prostaglandin F2.alpha.**

**Stability:** Unstable  Stable

#### **Conditions To Avoid - Instability**

No data available.

#### **Incompatibility - Materials To Avoid**

No data available.

#### **Hazardous Decomposition Or Byproducts**

carbon dioxide

carbon monoxide

**Hazardous Polymerization:** Will occur  Will not occur

#### **Conditions To Avoid - Hazardous Polymerization**

No data available.

### **SECTION 11. Toxicological Information 2,3-dinor-8-iso Prostaglandin F2.alpha.**

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

#### **Chronic Toxicological Effects**

No data available.

### **SECTION 12. Ecological Information 2,3-dinor-8-iso Prostaglandin F2.alpha.**

Runoff from fire control or dilution water may cause pollution.

### **SECTION 13. Disposal Considerations 2,3-dinor-8-iso Prostaglandin F2.alpha.**

**Waste Disposal Method**

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

**SECTION 14. Transport Information  
2,3-dinor-8-iso Prostaglandin F2.alpha.**

**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  
2,3-dinor-8-iso Prostaglandin F2.alpha.**

Regulatory information on this product is not available.

**SECTION 16. Other Information  
2,3-dinor-8-iso Prostaglandin F2.alpha.**

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.

---