



MATERIAL SAFETY DATA SHEET

SECTION 1. Chemical Product and Company Identification Iloprost

Product Code: 78919-13-8 , **Reference #:** 18215

Product Name: Iloprost

CAS Number: 78919-13-8

Chemical Family: Prostaglandins

Synonyms

6,9.alpha.-methylene-11.alpha.,15S-dihydroxy-16-methyl-prosta-5E,13E-dien-18-yn-1-oic acid;

Ciloprost

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:
02/03/2003

Revision: 05/15/2003

Printed: 07/02/2003

SECTION 2. Composition/Information on Ingredients Iloprost

Hazardous Components (Specific Chemical Identity/Common Name)

Name: Iloprost

CAS #: 78919-13-9

OSHA PEL: No data.

Percentage: 0.5 %

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: 99.5 %

ACGIH TLV: No data.

SECTION 3. Hazards Identification Iloprost

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
Iloprost****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.

Note to Physician

No data available.

Medical Conditions Generally Aggravated By Exposure

No data available.

**SECTION 5. Fire Fighting Measures
Iloprost**

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 Iloprost

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 Iloprost

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 Iloprost

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 Iloprost

Physical States:	<input type="checkbox"/> Gas , <input checked="" type="checkbox"/> Liquid , <input type="checkbox"/> Solid
Boiling Point:	No data.
Melting Point:	No data.
Specific Gravity (Water = 1):	No data.
Density:	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:	1 mg/ml* at 25.0 C
Other Solubility Notes:	*PBS pH 7.2, sol. in EtOH, DMSO, & DMF
Percent Volatile:	No data.
Saturated Vapor Concentration:	No data.
Viscosity:	No data.
Molecular Formula:	C22H32O4
Molecular Weight:	360.50
pH:	No data.
Appearance and Odor	
A clear, colorless solution	

SECTION 10. Stability and Reactivity Iloprost

Stability: Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>
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 <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>
Conditions To Avoid - Hazardous Polymerization
No data available.

SECTION 11. Toxicological Information Iloprost

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

Chronic Toxicological Effects

No data available.

SECTION 12. Ecological Information Iloprost

Runoff from fire control or dilution water may cause pollution.

SECTION 13. Disposal Considerations Iloprost

Waste Disposal Method

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

SECTION 14. Transport Information Iloprost

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 Iloprost

Regulatory information on this product is not available.

SECTION 16. Other Information Iloprost

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

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