



## Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Alprostadil USP (Prostaglandin E1)

55-2196

### Section 1: Identification

**Product Name** Alprostadil USP (Prostaglandin E1)

**Commercial Name** Not available.

**Product Use** Not available

**Restrictions On Use** Not available

**Product Code** 55-2196

**Company** PCCA  
9901 South Wilcrest  
Houston, TX 77099  
Phone: 1-800-331-2498  
Fax: 1-800-874-5760

In case of emergency contact:  
**CHEMTREC (24hr) 1-800-424-9300**

### Section 2: Hazard(s) Identification

**OSHA Haz Com:** Acute toxicity, oral: category 3  
**CFR 1910.1200**

**Signal Word** DANGER

**Hazard Statement(s)** Toxic if swallowed. Suspected of damaging fertility or the unborn child

**Pictogram(s) or Symbol(s)**



**Precautionary Statement(s):**

**Prevention** Not available.  
**Response** P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P308+313: IF exposed or concerned: Get medical attention/advice. P330: Rinse mouth  
**Storage** Not available  
**Disposal** Not available.

### Section 3: Composition/Information on Ingredients

**Substance/Mixture** Substance

**Components** Alprostadil USP (Prostaglandin E1)

**% By Weight** 100

**CAS#** 745-65-3

**Molecular Weight** 354.48 g/mole

**Chemical Formula** C20-H34-O5

**Synonym(s)** (1R,2R,3R)-3-Hydroxy-2-[(E)-(3S)-3-hydroxy-1-octenyl]-5-oxocyclopentane heptanoic acid

#### Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Alprostadil USP (Prostaglandin E1)	745-65-3	100	Not Available.	Not Available.

**Section 4: First-Aid Measures**

<b>Inhalation</b>	If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.
<b>Skin Contact</b>	Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.
<b>Eye Contact</b>	Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomit ing unless advised to do so by a physician or Poison Control Center. Seek medical attention.
<b>Symptoms/Effects</b>	
<b>Acute</b>	Not available
<b>Delayed</b>	Not available
<b>Immediate Medical Attention</b>	
Not available	

**Section 5: Fire-Fighting Measures**

<b>Suitable Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable Extinguishing Media</b>	Not available.
<b>Products of Combustion</b>	carbon oxides
<b>Firefighters Special Equipment and Precautions</b>	Wear self contained breathing apparatus for fire fighting if necessary

**Section 6: Accidental Release Measures**

Personal precautions: Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Method and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Section 7: Handling and Storage**

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Storage: Store in airtight and light-resistant packages. Keep refrigerated at temperature of 2~8°C for long-term storage.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Limits</b>	Contains no components with established occupational exposure limits
<b>Engineering Controls</b>	This product should be handled with personal protective equipment. Avoid inhalation. Avoid all contact. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Wash the skin after the finishing of the work with water and soap carefully.
<b>Personal Protection</b>	Respiratory protection: mask with active carbon filter Hand Protection: chemical-resistant gloves Eye protection: safety goggles Skin protection: protective clothing

**Section 9: Physical and Chemical Properties**

<b>Appearance</b>	White or almost white, crystalline powder		
<b>Odor</b>	Not available.		
<b>Odor Threshold</b>	Not available.		
<b>Melting Point</b>	110°C- 116	<b>pH</b>	Not available.
<b>Freezing Point</b>	Not available.	<b>Vapor Pressure</b>	Not applicable.
<b>Boiling Point/Range</b>	Not available.	<b>Vapor Density</b>	Not available.
<b>Decomposition temperature</b>	Not available.	<b>Viscosity</b>	Not available.
<b>Partition Coefficient: n-octanol/water</b>	Not available.	<b>Evaporation Rate</b>	Not available.
<b>Flash Point</b>	Not available.	<b>Autoignition temperature</b>	Not available.
<b>Flammability</b>	Not available	<b>Flammability or Explosive Limits:</b>	
		<b>Lower</b>	Not available
		<b>Upper</b>	Not available
<b>Solubility(ies)</b>	Freely soluble in alcohol; soluble and in acetone; slightly soluble in ethyl acetate; very slightly soluble in chloroform and in ether.		
<b>Other</b>	Not available.		

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Stable if kept in closed original containers under storage conditions as described in Section 7 Protect from moisture. This substance is stable if stored at 2~8°C. No dangerous decomposition material will form if handled as instructed.
<b>Hazardous Polymerization</b>	Not available
<b>Conditions to Avoid</b>	Not available
<b>Incompatible Materials</b>	Not available.
<b>Hazardous Decomposition Products</b>	Not available.

**Section 11: Toxicological Information**

<b>RTECS</b>	GY4569800
<b>Acute Toxicity</b>	Acute toxicity 228 mg/kg (rat) Oral LD50 No data available Inhalation LD50 No data available Dermal LD50 No data available
<b>Skin Corrosion/Irritation</b>	Not available
<b>Serious Eye Damage/Irritation</b>	Not available
<b>Respiratory or Skin Sensitization</b>	Not available
<b>Germ Cell Mutagenicity</b>	Not available
<b>Carcinogenicity</b>	Not listed.
<b>Reproductive Toxicity</b>	Not available
<b>Routes of Entry</b>	



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Alprostadiil USP (Prostaglandin E1)

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Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. Ingestion: May be harmful if swallowed. Skin: May be harmful if absorbed through skin. May cause skin irritation. Eyes: May cause eye irritation.

### Symptoms Related to Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties of this material have not been thoroughly investigated

### Potential Health Effects

Apart from ocular irritation and conjunctival or episcleral hyperemia, the ocular effects of this material administered at high doses are not known

**Target Organ(s)** Not available

## Section 12: Ecological Information

### Ecotoxicity

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

### Persistence and Degradability

Not available

### Bioaccumulative Potential

Not available

### Mobility in Soil

Not available

### Other Adverse Effects

Influence of waste on waste water: Do not let out into water an ecosystem without previous, treatment using suitable biological waste water treatment plant.

## Section 13: Disposal Considerations

### Waste Disposal

Product may be burned in an incinerator equipped with afterburner and scrubber. Excess and expired materials are to be offered to a licensed hazardous material disposal company. Ensure that all Federal and Local regulations regarding the disposal and destruction of this material are followed.

### Disposal of Container

Dispose of as above.

### Other Considerations

Product is not to be disposed of in sanitary sewers, storm sewers, or landfills.

## Section 14: Transport Information

### DOT Classification

This substance is shipped under low temperature throughout the transportation process to prolong the product life. The delivery is carried out under blue ice along with dry ice to maintain the low temperature.

## Section 15: Regulatory Information

### Regulations

Not available

### Other

WHMIS CLASS D-1B: Material causing immediate and (Canada) serious toxic effects (TOXIC); DSCL (EEC) R22- Harmful if swallowed. R36- Irritating to eyes.; Gloves.; Lab coat.; Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.; Splash goggles.

## Section 16: Other Information

The information contained in this safety data sheet has been collected upon the present knowledge available with the utmost care but does not purport to be all inclusive and shall be used only as a guide. Insufficient data are available on the effect of this substance on human health. It is recommended for the user to ensure that this information is complete and sufficient for the specific use of this product. Chirogate International Inc. shall not be held liable for any damage, of whatever nature, that might be caused by the use of this product and/or by the information presently submitted.