

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: Prostaglandin E1
Synonyms: Alprostadil
(11 α ,13E,15S)-11,15-Dihydroxy-9-oxoprost-13-enoic acid
Company Identification: PI Chemicals Ltd.
Building B, 633 E Shan Road, Pudong New Area
Shanghai 200127, China
Telephone Number: 86-21-58953700
Fax Number: 86-21-58953701

Section 2 - Product Information

Catalog Number: PI-16017
CAS Number: 745-65-3
MDL Number: MFCD00077860
EC Number: 212-017-2
Purity: 98%

Section 3 - Physical and Chemical Properties

Physical state: Powder
Color: White to off-white
Molecular Formula: C₂₀H₃₄O₅
Molecular Weight: 354.48
Freezing/Melting Point: 113 - 116 °C (235 - 241 °F)
Boiling Point: Not available
Flash Point: Not available
Ignition temperature: Not available
Refractive Index (n_D20): Not available
Density: Not available
Decomposition Temperature: Not available
Solubility: 10 g/l at 25 °C (77 °F) Acetone

Section 4 - Hazards Identification

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

Ingestion: Toxic if swallowed.

Section 5 - First Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing give artificial respiration.
Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.
Consult a physician.

Section 6 - Stability and Reactivity

Chemical Stability: Stable under recommended storage conditions.

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides.

Section 7 - Handling and Storage

Handling: Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage: Keep container tightly closed in a dry and well-ventilated place.
Recommended storage temperature: -20 °C
Light sensitive. Moisture sensitive. Heat sensitive. Store under inert gas. Keep in a dry place.

Section 8 - Personal Protection

Eyes: Wear appropriate protective eyeglasses.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Fire and Explosion Hazard Data

General Information: As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin and eyes.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Section 10 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 11 - Toxicological Information

RTECS#: CAS#745-65-3: GY4569800.
LD50/LC50: LD50 Oral - rat - 228 mg/kg
LD50 Intraperitoneal - rat - 24.9 mg/kg
LD50 Subcutaneous - rat - 18.6 mg/kg
LD50 Intravenous - rat - 19.2 mg/kg
LD50 Intraarterial - rat - 21 mg/kg
Carcinogenicity: Prostaglandin E1 -Not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

Section 12 - Environmental information

Not available

Section 13 - Disposal Consideration

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

IATA: UN-Number: 2811 Class: 6.1 Packing group: III.
IMO: UN-Number: 2811 Class: 6.1 Packing group: III.
RID/ADR: UN-Number: 2811 Class: 6.1 Packing group: III.

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives
OSHA Hazards: Target Organ Effect, Toxic by ingestion, Teratogen
Hazard Symbols: Xn
Indication of Danger: Harmful
Risk Phrases:
R 22: Harmful if swallowed.
Safety Phrases:
S 36: Wear suitable protective clothing.

WGK (Water Danger/Protection)

CAS# 745-65-3: 3.

Canada

CAS# 745-65-3: Not available.

US Federal

TSCA

CAS# 745-65-3 is not listed on the TSCA Inventory. It is for research and development use only.

Section 16 - Additional Information

MSDS Creation Date: 12 June, 2008
Update: 24 August, 2011

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