

## Safety Data Sheet

### Section 1: Product & Company Identification

<b>Product Name:</b>	Prostaglandin E1
<b>Product #:</b>	P-4002
<b>Synonyms:</b>	(11 $\alpha$ ,13E,15S)-11,15-Dihydroxy-9-oxo-prost-13-en-1-oic acid; Alprostadi; PGE1
<b>Supplier:</b>	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
<b>Emergency Tele#:</b>	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

### Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
Prostaglandin E1	745-65-3		

### Section 3: Hazards Identification

<b>Symbols</b>	
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#### HMIS Rating

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard

#### NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard

### Section 4: First Aid Measures

<b>General Overview:</b>	Show this material safety data sheet to the doctor in attendance.
<b>Inhalation:</b>	After inhalation: fresh air.

<b>Skin:</b>	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
<b>Eyes:</b>	After eye contact: rinse out with plenty of water. Remove contact lenses.
<b>Ingestion:</b>	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.
	See section 11 for more detailed information on health effects & symptoms.

## SECTION 5: Fire Fighting Measures

<b>Flammability of the product:</b>	Combustible
<b>Extinguishing Media:</b>	Water, foam, carbon dioxide, dry powder
<b>Hazardous thermal (de)composition products:</b>	Carbon oxides
<b>Special Fire Fighting Procedures:</b>	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
<b>Flash Point:</b>	No data available

## Section 6: Accidental Release Measures

<b>Personal Precautions:</b>	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
<b>Environmental Precautions:</b>	Do not let product enter drains.
<b>Methods for Clean-up:</b>	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

## SECTION 7: Handling & Storage

<b>Storage:</b>	Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Recommended storage temperature: -20°C.
<b>Handling:</b>	For precautions see section 2.2.

## SECTION 8: Exposure controls / Personal Protection

<b>Respiratory Protection:</b>	
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	 <p>Recommended Filter type: Filter type P3 The entrepreneur must ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.</p> <p>These measures must be properly documented. Required when dust is generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.</p>
<p><b>Skin and Body:</b></p>	  <p>Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.</p> <p>Protective clothing.</p>
<p><b>Eyes:</b></p>	 <p>Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.</p>

<b>Ventilation/Engineering Measures:</b>	Do not let product enter drains.
<b>Hygiene:</b>	Change contaminated clothing. Preventive skin protection is recommended. Wash hands after working with substance.
<b>Other:</b>	Contains no substances with occupational exposure limit values.

## SECTION 9: Physical and Chemical Properties

<b>Appearance &amp; Odor:</b>	Solid
<b>Formula</b>	C <sub>20</sub> H <sub>34</sub> O <sub>5</sub>
<b>Molecular Wt.</b>	354.5
<b>Melting Pt.</b>	115 - 116°C (239 - 241°F)
<b>Boiling Pt.</b>	No data available
<b>Density:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Evaporation Rate:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Solubility:</b>	DMSO, Ethanol
<b>Flash Point:</b>	No data available
<b>Autoignition Temp:</b>	No data available

## SECTION 10: Stability and Reactivity

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous decomposition products:</b>	Carbon oxides
<b>Materials to Avoid:</b>	Strong oxidizing agents
<b>Conditions to avoid:</b>	No data available

## SECTION 11: Toxicological Information

<b>RTECS#:</b>	GY4569800
<b>ACUTE Toxicity:</b>	LD50 Oral = 228 mg/kg (Rat)
<b>CHRONIC Toxicity:</b>	N/A
<b>Chronic Exposure:</b> <b>Carcinogen:</b> <b>Mutagen:</b> <b>Teratogen:</b> <b>Reproductive:</b>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.

	<p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>
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## SECTION 12: Ecological Information

<b>Ecotoxicity:</b>	No data available
<b>Mobility:</b>	No data available
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data available
<b>Other adverse effects:</b>	No data available
<b>Corrosivity Characteristic:</b>	No data available
<b>General Notes:</b>	No data available

## SECTION 13: Disposal Considerations

<b>Residue Waste or Unused product:</b>	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste.
<b>Contaminated Packaging:</b>	Handle uncleaned containers like the product itself.

## SECTION 14: Transportation Information

<b>UN ID#:</b>	2811
<b>ADR / RID (LAND):</b>	
<b>DOT regulations:</b>	<p>UN: 2811            Class: 6.1            Packing Group: III            Proper shipping name: Toxic solids, organic, n.o.s. ((11<math>\alpha</math>,13E,15S)-11,15-Dihydroxy-9-oxoprost-13-en-1-oic acid)</p> <p>Reportable Quantity (RQ):</p> <ul style="list-style-type: none"> <li>Poison inhalation hazard: No</li> </ul>
<b>IMDG/IMO (SEA):</b>	<p>UN: 2811            Class: 6.1            Packing group: III            EMSNo: F-A, S-A</p>

	Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. ((11 $\alpha$ ,13E,15S)-11,15-Dihydroxy-9-oxoprost-13-en-1-oic acid)
<b>IATA/DGR (AIR):</b>	UN: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solid, organic, n.o.s. ((11 $\alpha$ ,13E,15S)-11,15-Dihydroxy-9-oxoprost-13-en-1-oic acid)
<b>Special Provisions:</b>	N/A

## SECTION 15: Regulatory Information

<b>Health Phrases:</b>	Danger! H301 Toxic if swallowed.
<b>Risk Phrases:</b>	P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
<b>Safety Phrases:</b>	P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant.
<b>EU Regulations:</b>	N/A
<b>US Regulations:</b>	TSCA: Not listed California Proposition 65: No products were found  New Jersey State Right to Know: Listed Pennsylvania State Right to Know: Listed
<b>U.S. Federal Regulations:</b>	SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: Acute Health Hazard, Chronic Health Hazard SARA 313 toxic chemicals notification and release reporting: No products were found.  Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA: Acute toxicity - oral (Cat. 3)
<b>WHMIS (Canada):</b>	N/A

## SECTION 16: Other Information



**LIABILITY STATEMENT:** *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*