

# Prostaglandin G2: sc-205471



The Power to Question

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

<b>Product Name:</b>	Prostaglandin G2	<b>Emergency:</b> ChemWatch Within the US & Canada: 877-715-9305 Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112
<b>Catalog Number:</b>	sc-205471	
<b>Supplier:</b>	Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800	
<b>Synonyms:</b>	9.alpha.,11.alpha.-epidioxy-15S-hydroperoxy-prosta-5Z,13E-dien-1-oic acid; PGG2;	

### 2. Hazards Identification

<b>Emergency Overview:</b>	Highly Flammable. Irritant. Target Organ(s): central nervous system, eyes, respiratory system, skin. The hazards identified with this product are those associated with the solvent(s).
<b>Route(s) of Entry:</b>	Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection
<b>Health Hazards (Acute and Chronic):</b>	Harmful by inhalation, ingestion, or skin absorption. Irritating to eyes, respiratory system and skin. Material is irritating to the mucous membranes and upper respiratory tract. The toxicological properties of this product have not been fully evaluated.
<b>LD 50 / LC 50:</b>	Please refer to Section 11.
<b>Signs and Symptoms Of Exposure:</b>	Prolonged or repeated exposure may cause redness, pain, drying, and cracking of the skin. Inflammation of the eye; characterized by redness, watering, and itching. Ingestion of large amounts can cause abdominal pain, nausea, and vomiting. Inhalation may cause coughing, dizziness, dullness, and headache.

### 3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	EC#	RTECS #
1. Prostaglandin G2	51982-36-6	0.01 %	NA	NA
2. Acetone	67-64-1	99.99 %	200-662-2	AL3150000

### 4. First Aid Measures

<b>Emergency and First Aid Procedures:</b>	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 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 for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
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### 5. Fire Fighting Measures

<b>Flash Pt:</b>	-18.00 C Method Used: Closed Cup
<b>Explosive Limits:</b>	LEL: 2.5% at 25.0 C UEL: 12.8% at 25.0 C
<b>Autoignition Pt:</b>	465.00 C
<b>Special Fire Fighting Procedures:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes. Note: Flammable as diluted in acetone.

**Unusual Fire and Explosion Hazards:** Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.  
 Container explosion may occur under fire conditions.  
 Emits toxic fumes under fire conditions.  
 Sensitive to static discharge.  
 Vapors can travel to a source of ignition and flash back.

**Hazardous Combustion Products:** No data available.

**Suitable Extinguishing Media:** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.  
 Use water spray to cool fire-exposed containers.

**Unsuitable Extinguishing Media:** A solid water stream may be inefficient.

## 6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:** Avoid release into the environment.  
 Avoid breathing vapors and provide adequate ventilation.  
 Remove all sources of ignition.  
 As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).  
 Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

## 7. Handling and Storage

**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 breathing (dust, vapor, mist, gas).  
 Avoid prolonged or repeated exposure.  
 Keep away from sources of ignition.  
 Prevent the build up of electrostatic charge.

**Precautions To Be Taken in Storing:** Keep away from heat, sparks, and flame.  
 Keep tightly closed.  
 Store at -80° C.

## 8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TWA	Other Limits
1. Prostaglandin G2	51982-36-6	No data.	No data.	No data.
2. Acetone	67-64-1	PEL: 1000 ppm	TLV: 500 ppm STEL: 750 ppm	No data.

**Protective Equipment Summary - Hazard Label Information:** Compatible chemical-resistant gloves Eye wash station in work area Lab coat Safety glasses Safety shower in work area Vent Hood

**Respiratory Equipment (Specify Type):** NIOSH approved respirator, as conditions warrant.

**Eye Protection:** Safety glasses

**Protective Gloves:** Compatible chemical-resistant gloves

**Other Protective Clothing:** Lab coat

**Ventilation:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**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.

## 9. Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Melting Point:** No data.

**Boiling Point:** No data.

**Autoignition Pt:** 465.00 C

**Flash Pt:** -18.00 C Method Used: Closed Cup

**Explosive Limits:** LEL: 2.5% at 25.0 C UEL: 12.8% at 25.0 C

**Specific Gravity (Water = 1):** No data.

**Bulk density:** No data.

<b>Vapor Pressure (vs. Air or mm Hg):</b>	180 MM_HG at 20.0 C
<b>Vapor Density (vs. Air = 1):</b>	No data.
<b>Evaporation Rate (vs Butyl Acetate=1):</b>	No data.
<b>Solubility in Water:</b>	No data.
<b>Percent Volatile:</b>	No data.
<b>Heat Value:</b>	No data.
<b>Particle Size:</b>	No data.
<b>Corrosion Rate:</b>	No data.
<b>Formula:</b>	C20H32O6
<b>Molecular Weight:</b>	368.50
<b>pH:</b>	No data.
<b>Appearance and Odor:</b>	No data available.

## 10. Stability and Reactivity

<b>Stability:</b>	Unstable [ ]    Stable [ X ]
<b>Conditions To Avoid - Instability:</b>	heat, flames and sparks
<b>Incompatibility - Materials To Avoid:</b>	bases strong oxidizing agents
<b>Hazardous Decomposition Or Byproducts:</b>	carbon dioxide carbon monoxide
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ]    Will not occur [ X ]
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.

## 11. Toxicological Information

<b>:</b>	The toxicological effects of this product have not been thoroughly studied.
<b>Chronic Toxicological Effects:</b>	Acetone - Toxicity Data: Oral LD50 (rat): 5,800 mg/kg; Inhalation LC50 (rat): 50,100 mg/m3 (8 hr); Irritation Data: Eyes (rabbit): 20 mg severe. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Acetone RTECS Number: AL3150000
<b>Carcinogenicity/Other Information:</b>	No data available.
<b>Carcinogenicity:</b>	NTP? No    IARC Monographs? No    OSHA Regulated? No

## 12. Ecological Information

<b>:</b>	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.
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## 13. Disposal Considerations

<b>Waste Disposal Method:</b>	Dispose in accordance with local, state, and federal regulations.
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## 14. Transport Information

### LAND TRANSPORT (US DOT)

<b>DOT Proper Shipping Name</b>	Acetone
<b>DOT Hazard Class:</b>	3
<b>DOT Hazard Label:</b>	FLAMMABLE LIQUID
<b>UN/NA Number:</b>	1090
<b>Packing Group:</b>	II

### LAND TRANSPORT (European ADR/RID)

<b>ADR/RID Shipping Name</b>	Acetone
<b>UN Number:</b>	1090
<b>Packing Group:</b>	II

**AIR TRANSPORT (ICAO/IATA)**

ICAO/IATA Shipping Name Acetone  
 UN Number: 1090  
 Packing Group: II  
 IATA Classification: 3

**Additional Transport Information:** Transport in accordance with local, state, and federal regulations.

<b>15. Regulatory Information</b>
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**European Community Hazard Symbol codes** F: Highly Flammable; Xi: Irritant

**European Community Risk and Safety Phrases**

- R11 - Highly flammable.
- R36 - Irritating to eyes.
- R66 - Repeated exposure may cause skin dryness or cracking
- R67 - Vapours may cause drowsiness and dizziness
- S9 - Keep container in a well-ventilated place.
- S16 - Keep away from sources of ignition.
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**US EPA SARA Title III**

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Prostaglandin G2	51982-36-6	No	No	No	No
2. Acetone	67-64-1	No	Yes 5000 LB	No	Yes

**US EPA CAA, CWA, TSCA**

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	HPV/LPV
1. Prostaglandin G2	51982-36-6	HAP, ODC ()	No	No	
2. Acetone	67-64-1	HAP, ODC ()	No	Inventory	

<b>16. Other Information</b>
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*The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.*