

Revision: 04/28/2017 Supersedes Revision: 07/25/2012

		ling to Pagulation (EC) No. 1007/2000	EC) No. 1272/2008				
		ling to Regulation (EC) No. 1907/2006 as amended by (
	Section 1. Ide	entification of the Substance/Mixture and of th	ie Company/Undertaking				
.1	Product Code:	18220					
	Product Name:	Prostaglandin I2 (sodium salt)					
	Synonyms:	6,9.alphaepoxy-11.alpha.,15S-dihydroxy-pros Epoprostenol; PGI2; Prostacyclin;	sta-52,13E-dien-1-oic acid, monosodium sait				
.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant identified uses:	For research use only, not for human or vetering	nary use.				
3	Details of the Supplier of the Safety Data Sheet:						
	Company Name:	Cayman Chemical Company					
		1180 E. Ellsworth Rd.					
		Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com	4 (704)074 0005				
_	Information:	Cayman Chemical Company	+1 (734)971-3335				
.4	Emergency telephone numb		.4. (000) 404 0000				
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887				
		Section 2. Hazards Identification	ation				
1	Classification of the Substar	nce or Mixture:					
2	Acute Toxicity: Oral, Categ Acute Toxicity: Skin, Categ Label Elements:						
.2	Acute Toxicity: Skin, Cate						
2	Acute Toxicity: Skin, Cate Label Elements:	gory 4					
2	Acute Toxicity: Skin, Cate						
2	Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word:	gory 4					
2	Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases:	gory 4 Warning					
2	Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed.	gory 4 Warning					
2	Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact with	gory 4 Warning					
.2	Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful if swallowed. H312: Harmful if inhaled. GHS Precaution Phrases:	gory 4 Warning					
.2	Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful if swallowed. H312: Harmful if inhaled. GHS Precaution Phrases:	gory 4 Warning h skin. /fume/gas/mist/vapors/spray}.					
.2	Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wit H332: Harmful if inhaled. GHS Precaution Phrases: P261: Avoid breathing {dust P264: Wash {hands} thoroug	gory 4 Warning h skin. /fume/gas/mist/vapors/spray}.	on}.				
.2	Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wit H332: Harmful if inhaled. GHS Precaution Phrases: P261: Avoid breathing {dust P264: Wash {hands} thoroug	gory 4 Warning h skin. /fume/gas/mist/vapors/spray}. ghly after handling.	on}.				
.2	Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wit H332: Harmful if inhaled. GHS Precaution Phrases: P261: Avoid breathing {dust P264: Wash {hands} thoroug P280: Wear {protective glow GHS Response Phrases:	gory 4 Warning h skin. /fume/gas/mist/vapors/spray}. ghly after handling.					
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Adverse Human Health Harmful if inhaled, swallowed, or in contact with skin. 2.3 Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Section 3. Composition/Information on Ingredients CAS #/ EC No./ **GHS Classification** Hazardous Components (Chemical Name)/ Concentration **RTECS # REACH Registration No.** EC Index No. 61849-14-7 Prostaglandin I2 (sodium salt) 100.0 % 263-273-7 Acute Tox.(I) 4: H332 UK8008700 NA Acute Tox.(D) 4: H312 Acute Tox.(O) 4: H302 Section 4. First Aid Measures 4.1 **Description of First Aid** Measures: In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. 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. In Case of Eye Contact: 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 Ingestion: 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. Section 5. Fire Fighting Measures 5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Media: Unsuitable Extinguishing A solid water stream may be inefficient. Media: 5.2 Flammable Properties and No data available. Hazards: No data available. Flash Pt: No data. **Explosive Limits:** LEL: No data. UEL: No data. Autoignition Pt: No data. 5.3 Fire Fighting Instructions: 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. Section 6. Accidental Release Measures 6.1 **Protective Precautions,** Avoid raising and breathing dust, and provide adequate ventilation. Protective Equipment and 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). **Emergency Procedures:** 6.2 Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: 6.3 Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up: Multi-region format



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	Section 7. Handling and Storage			
Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.			
in Handling:	Avoid prolonged or repeated exposure.			
Precautions To Be Taken	Keep container tightly closed.			
in Storing:	Store in accordance with information listed on the product insert.			
Other Precautions:	Hygroscopic.			
Sect	ion 8. Exposure Controls/Personal Protection			
Exposure Parameters:				
Exposure Controls:				
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn			
(Ventilation etc.):	levels below recommended exposure limits.			
Personal protection equip	ment:			
Eye Protection:	Safety glasses			
Protective Gloves:	Compatible chemical-resistant gloves			
Other Protective Clothing:	:Lab coat			
-	NIOSH approved respirator, as conditions warrant.			
(Specify Type):				
Work/Hygienic/Maintenan	Do not take internally.			
ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety showed			
	Wash thoroughly after handling.			
	No data available.			
Sf	ection 9. Physical and Chemical Properties			
	ical and Chemical Properties			
Physical States:	[]Gas []Liquid [X]Solid			
Appearance and Odor:	A crystalline solid			
pH:	No data.			
Melting Point:	No data.			
Boiling Point:	No data.			
Flash Pt:	No data.			
Evaporation Rate:	No data.			
Flammability (solid, gas):	No data available.			
Explosive Limits:	LEL: No data. UEL: No data.			
Vapor Pressure (vs. Air or	mm No data.			
Hg):				
Vapor Density (vs. Air = 1)	: No data.			
Specific Gravity (Water =				
Solubility in Water:	No data.			
Solubility Notes:	~11 mg/ml in PBS (pH 9.0);			
	No data.			
Octanol/Water Partition				
-	otes:			



				30	upersedes Revis	
	Autoignition Pt:	No data.				
	Decomposition Temperat	ure: No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Wei	ght: C20H31O5 · Na 374.5				
		Section 10. Stability a	Ind Reactiv	vity		
10.1	Reactivity:	No data available.				
10.2	Stability:	Unstable [] Stable [X]				
10.3	Stability Note(s):	Stable if stored in accordance with inf	ormation listed c	on the product	insert.	
	Polymerization:	Will occur [] Will not occur [X]				
10.4	Conditions To Avoid:	No data available.				
10.5	Incompatibility - Materials	strong oxidizing agents				
	To Avoid:					
10.6	Hazardous	carbon dioxide				
	Decomposition or	carbon monoxide				
	Byproducts:	sodium oxides				
		Section 11. Toxicologi	cal Informa	ation		
	Information on				udied	
11.1	mormation on	The toxicological effects of this produ-	ct have not been	i thoroughly st	aaroa.	
11.1	Toxicological Effects:	The toxicological effects of this produ	ct have not been	i thoroughly st		
	Toxicological Effects:	ponents (Chemical Name)	t have not been	I thoroughly st	ACGIH	OSHA
CAS	Toxicological Effects:	ponents (Chemical Name)				OSHA n.a.
CAS	Toxicological Effects: # Hazardous Com	ponents (Chemical Name) (sodium salt)	NTP n.a.	IARC n.a.	ACGIH	_
6184	Toxicological Effects: # Hazardous Com 49-14-7 Prostaglandin I2	(sodium salt) Section 12. Ecologica	NTP n.a.	IARC n.a.	ACGIH	_
CAS 4 6184	Toxicological Effects: # Hazardous Com	(sodium salt) Section 12. Ecologica Avoid release into the environment.	NTP n.a. al Informati	n.a.	ACGIH	_
CAS a 6184 12.1	Toxicological Effects: # Hazardous Com 49-14-7 Prostaglandin I2 Toxicity: Toxicity:	(sodium salt) Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat	NTP n.a. al Informati	n.a.	ACGIH	_
CAS a 6184 12.1	Toxicological Effects: # Hazardous Com 49-14-7 Prostaglandin I2 Toxicity: Persistence and	(sodium salt) Section 12. Ecologica Avoid release into the environment.	NTP n.a. al Informati	n.a.	ACGIH	_
CAS # 6184 12.1 12.2	Toxicological Effects: # Hazardous Com 49-14-7 Prostaglandin I2 Toxicity: Persistence and Degradability: Persistence and	(sodium salt) Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available.	NTP n.a. al Informati	n.a.	ACGIH	_
CAS # 6184 12.1 12.2	Toxicological Effects: # Hazardous Com 49-14-7 Prostaglandin I2 Toxicity: Persistence and Degradability: Bioaccumulative	(sodium salt) Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat	NTP n.a. al Informati	n.a.	ACGIH	_
CAS = 6184 12.1 12.2 12.3	Toxicological Effects: # Hazardous Com 49-14-7 Prostaglandin I2 Toxicity: Prostaglandin I2 Persistence and Degradability: Bioaccumulative Potential:	(sodium salt) Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available.	NTP n.a. al Informati	n.a.	ACGIH	_
CAS = 6184 12.1 12.2 12.3 12.4	Toxicological Effects: # Hazardous Com 49-14-7 Prostaglandin I2 Toxicity: Prostaglandin I2 Persistence and Degradability: Bioaccumulative Potential: Mobility in Soil: Mobility in Soil:	(sodium salt) (sodium salt) Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available.	NTP n.a. al Informati	n.a.	ACGIH	_
CAS = 6184 12.1 12.2 12.3 12.4	Toxicological Effects: # Hazardous Com 49-14-7 Prostaglandin I2 Toxicity: Image: Colspan="2">Toxicity: Persistence and Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB	(sodium salt) (sodium salt) Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available.	NTP n.a. al Informati	n.a.	ACGIH	_
CAS = 6184 12.1 12.2 12.3 12.4 12.5	Toxicological Effects: # Hazardous Com 49-14-7 Prostaglandin I2 Toxicity: Prostaglandin I2 Toxicity: Persistence and Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment: Potential	(sodium salt) (sodium salt) Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available.	NTP n.a. al Informati	n.a.	ACGIH	_
CAS = 6184 12.1 12.2 12.3 12.4 12.5	Toxicological Effects: # Hazardous Com 49-14-7 Prostaglandin I2 Toxicity: Image: Colspan="2">Toxicity: Persistence and Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB	ponents (Chemical Name) (sodium salt) Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available. No data available.	NTP n.a. al Informati er may cause po	IARC n.a.	ACGIH	_
CAS # 6184 12.1 12.2	Toxicological Effects: # Hazardous Com 49-14-7 Prostaglandin I2 Toxicity: Prostaglandin I2 Toxicity: Persistence and Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment: Other adverse effects:	(sodium salt) (sodium salt) Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wat No data available. No data available. No data available. No data available.	NTP n.a. al Informati er may cause po Considerati	IARC n.a.	ACGIH	_



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Section 14. Transport Information LAND TRANSPORT (US DOT): 14.1 DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: LAND TRANSPORT (European ADR/RID): 14.1 ADR/RID Shipping Name: Not dangerous goods. **UN Number:** Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 61849-14-7 Prostaglandin I2 (sodium salt) No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA 61849-14-7 Prostaglandin I2 (sodium salt) PROP.65: No This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) **Regulatory Information** No.1272/2008. Statement: Section 16. Other Information 04/28/2017 Revision Date: Additional Information About No data available. This Product: Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

Multi-region format