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Revision: 06/07/2018

	according to	D Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/8	30 and US OSHA HCS 2015				
	Section 1. Ide	entification of the Substance/Mixture and of t	the Company/Undertaking				
.1	Product Code: Product Name: Synonyms:	316350 8-iso Prostaglandin F2.alphad4 9.alpha.,11.alpha.,15S-trihydroxy-(8.beta.)-pro iPF2.alphaIII-d4; 8-Isoprostane-d4; 15-F2t-Is					
.2	Relevant identified uses of the substance or mixture and uses advised against:						
-	Relevant identified uses:	For research use only, not for human or veteri					
.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					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
.4	Emergency telephone numb Emergency Contact:	er: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887				
		Section 2. Hazards Identific					
.2	Flammable Liquids, Catego Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements:	-					
.2	Serious Eye Damage/Eye I Specific Target Organ Tox	rritation, Category 2					
.2	Serious Eye Damage/Eye I Specific Target Organ Toxi Label Elements:	rritation, Category 2 icity (single exposure), Category 3					
.2	Serious Eye Damage/Eye I Specific Target Organ Toxi Label Elements: GHS Signal Word:	rritation, Category 2					
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.2	Serious Eye Damage/Eye I Specific Target Organ Toxi Label Elements: GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposur H225: Highly flammable liqui H319: Causes serious eye in	rritation, Category 2 icity (single exposure), Category 3 Danger e may cause skin dryness or cracking. id and vapor. ritation.					
.2	Serious Eye Damage/Eye I Specific Target Organ Toxi Label Elements: GHS Signal Word: GHS Hazard Phrases: EUH066: Repeated exposur H225: Highly flammable liqui H319: Causes serious eye ir H336: May cause drowsines	rritation, Category 2 icity (single exposure), Category 3 Danger e may cause skin dryness or cracking. id and vapor. ritation. s or dizziness.					
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Please refer to Section 7	for Storage and Section 13 for Disposal information.
2.3 Adverse Human Health	Causes serious eye irritation.
Effects and Symptoms:	Material may be irritating to the mucous membranes and upper respiratory tract.
	May be harmful by inhalation, ingestion, or skin absorption.
	May cause drowsiness or dizziness.
	May cause skin or respiratory system irritation.
	Repeated exposure may cause skin dryness or cracking.
	To the best of our knowledge, the toxicological properties have not been thoroughly investigated

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
211105-40-7 NA	8-iso Prostaglandin F2.alphad4	0.01 %	NA NA	Acute Tox.(O) 4: H302 Toxic Repro. 1B: H360
79-20-9 Al9100000	Methyl acetate 01-2119459211-47	99.99 %	201-185-2 607-021-00-X	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H335 H336 EUH066

Section 4.	First	Aid	Measures
	1 11 0 0	/ \l\G	mododioo

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. Wash out mouth with water provided person is conscious. Never give anything by mouth to an In Case of Ingestion: unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel. 4.2 Important Symptoms and Exposure can cause: diarrhea, dizziness, fever, flushing, headache, hypotension, nausea, Effects, Both Acute and shivering, vomiting. Exposure may cause: coughing, drowsiness, narcosis, optic nerve atrophy, chest tightness. **Delayed:** 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 Can release vapors that form explosive mixtures at temperatures at or above the flash point. Container explosion may occur under fire conditions. Hazards: Emits toxic fumes under fire conditions. Sensitive to static discharge. Vapors can travel to a source of ignition and flash back. No data available. Flash Pt: -10.00 C Method Used: Closed Cup **Explosive Limits:** LEL: 3.1% at 25.0 C UEL: 16.0% at 25.0 C 455.00 C Autoignition Pt:

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5.3	Fire Fighting Instruction	s: As in any fire, wear self-co	ontained breathing apparatus pressure-dema	ind (NIOSH approved or				
		equivalent), and full prote	ctive gear to prevent contact with skin and ey	es.				
		Note: Flammable as dilute	ed in methyl acetate.					
		Section 6. Accid	ental Release Measures					
.1	Protective Precautions,	Avoid breathing vapors a	nd provide adequate ventilation.					
	Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirate							
	Emergency Procedures:	and appropriate personal	protection (rubber boots, safety goggles, and	d heavy rubber gloves).				
.2	Environmental	Take steps to avoid relea	se into the environment, if safe to do so.					
	Precautions:							
.3	Methods and Material Fo	or Contain spill and collect,	as appropriate.					
	Containment and Cleani	ng Transfer to a chemical wa	aste container for disposal in accordance with	າ local regulations.				
	Up:							
		Section 7. H	andling and Storage					
'.1	Precautions To Be Take	n Avoid breathing dust/fume	e/gas/mist/vapours/spray.					
	in Handling:	Avoid prolonged or repeat	ted exposure.					
		Keep away from sources of ignition.						
		Take precautionary measures against static discharge.						
.2	Precautions To Be Take	n Keep away from heat, spa	arks, and flame.					
	in Storing:	Keep container tightly clos						
		Store in accordance with information listed on the product insert.						
	Other Precautions:	Protect from moisture.						
	Sec	ction 8. Exposure	Controls/Personal Protection					
5.1	Exposure Parameters:			1				
CAS	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations				
79-20	-9 Methyl acetate	ACGIH TLV	TLV: 200 ppm STEL: 250 ppm					
		France VL	TWA: 610 mg/m3 (200 ppm)					
			STEL: 760 mg/m3 (250 ppm)					
		OSHA PELs	PEL: 200 ppm					
		Britain EH40	TWA: 616 mg/m3 (200 ppm) STEL: 770 mg/m3 (250 ppm)					
.2	Exposure Controls:	I		I				
.2.1	Engineering Controls	Use process enclosures,	local exhaust ventilation, or other engineering	g controls to control airbo				
	(Ventilation etc.):	levels below recommended exposure limits.						
3.2.2	Personal protection equipment:							
	Eye Protection:	Safety glasses						
	Protective Gloves:	Gloves: Compatible chemical-resistant gloves						

Other Protective Clothing: Lab coat

Respiratory Equipment 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 shower.Wash thoroughly after handling.

No data available.



Multi-region format

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		Supersedes Revision: 05/19/201			
	S	ection 9. Physical and Chemical Properties			
).1	Information on Basic Physical and Chemical Properties				
	Physical States:	[]Gas [X]Liquid []Solid			
	Appearance and Odor:	A solution in methyl acetate			
	pH:	No data.			
	Melting Point:	No data.			
	Boiling Point:	No data.			
	Flash Pt:	-10.00 C Method Used: Closed Cup			
	Evaporation Rate:	No data.			
	Flammability (solid, gas):				
	Explosive Limits:	LEL: 3.1% at 25.0 C UEL: 16.0% at 25.0 C			
	Vapor Pressure (vs. Air or	r mm 173 MM_HG at 20.0 C			
	Hg):				
	Vapor Density (vs. Air = 1): No data.			
	Specific Gravity (Water =	1): No data.			
	Solubility in Water:	No data.			
	Octanol/Water Partition Coefficient:	No data.			
	Autoignition Pt:	455.00 C			
	Decomposition Temperat				
	Viscosity:	No data.			
).2	Other Information				
	Percent Volatile:	No data.			
	Molecular Formula & Weig				
		Section 10. Stability and Reactivity			
10.1	Beestivity	No data available.			
10.1	Reactivity: Stability:	Unstable [] Stable [X]			
	-				
10.3	Stability Note(s): Polymerization:	Stable if stored in accordance with information listed on the product insert.			
	-	Will occur [] Will not occur [X]			
0.4	Conditions To Avoid:	heat, flames, and sparks			
0.5	Incompatibility - Materials				
	To Avoid:	alkalis nitrates			
		strong oxidizing agents			
10 6	Hazardous	carbon dioxide			
10.6		carbon monoxide			
	Decomposition or Byproducts:	Calbon monoxide			



Cayman		5	3-iso Prostaglandin	F2.alpha	ad4	Revis Supersedes Revis	sion: 06/07/2018 sion: 05/19/2015		
			Sectio	n 11. Toxicologica	l Informa	ation			
11.1	Information on The toxicological effects of this product Toxicological Effects: Methyl Acetate - Toxicity Data: Oral LDS Skin LD50 (rabbit): >5,000 mg/kg; Inhala Methyl Acetate - Irritation Data: Skin (ra Methyl Acetate - Irritation Data: Skin (ra moderate; Chronic Toxicological Only select Registry of Toxic Effects of 0 Effects: See actual entry in RTECS for complete Methyl Acetate RTECS Number: Al9100				0 (rat): >5,00 tion TCLO (h bit): 500 mg chemical Sub information.	0 mg/kg; Ora numan): 15,0 (24h) mild; E	al LD50 (rabbit): 00 mg/m3 mg/kg Eyes (rabbit): 100	g; 0 mg (24h)	
Carci	nogenicity	/:	NTP? No	IARC Monographs? No	OSHA Regulated? No				
CAS	#	Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA	
2111	05-40-7	8-iso Prostagland	lin F2.alphao	14	n.a.	n.a.	n.a.	n.a.	
79	-20-9	Methyl acetate			n.a.	n.a.	n.a.	n.a.	
			Secti	on 12. Ecological	Informat	ion			
12.1 12.2	Toxicity Persiste	nce and		e into the environment. fire control or dilution water ilable.	may cause p	ollution.			
12.3	Degrada Bioaccu Potentia	mulative	No data ava	ilable.					
12.4	Mobility	in Soil:	No data available. 3 No data available.						
12.5	Results assessm								
12.6		lverse effects:	No data ava	ilable.					
			Section 13. Disposal Considerations						
13.1	Waste D	isposal Method:	Dispose in accordance with local, state, and federal regulations.						
			Sect	tion 14. Transport	Informat	ion			
14.1	LAND T	RANSPORT (US D	DOT):						
D	OT Prope	r Shipping Name:	Methyl A	Acetate Solution					
D	OT Hazaro	d Class:	3	FLAMMABLE LIQU	ID				
U	N/NA Num	ıber:	1231	Ρ	acking Grou	ip:	II		
			FLAWWARDER 1	duoi					
14.1	LAND T	RANSPORT (Euro	opean ADR/R	ID):					
Α	DR/RID Sł	nipping Name:	Methyl /	Acetate Solution					
_	N Number		1231		acking Grou	ıp:	II		
H	azard Clas	SS:	3 - FLA	MMABLE LIQUID					

Multi-region format



Information:

CAS #

CAS #

211105-40-7

79-20-9

211105-40-7

79-20-9

Statement:

This Product:

SAFETY DATA SHEET 8-iso Prostaglandin F2.alpha.-d4 Revision: 06/07/2018 Supersedes Revision: 05/19/2015 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Methyl Acetate Solution **UN Number:** 1231 **Packing Group:** Ш Hazard Class: 3 - FLAMMABLE LIQUID IATA Classification: 3 Additional Transport Transport in accordance with local, state, and federal regulations. Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 8-iso Prostaglandin F2.alpha.-d4 No No No Methyl acetate No No No Hazardous Components (Chemical Name) Other US EPA or State Lists 8-iso Prostaglandin F2.alpha.-d4 CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes -Methyl acetate Inventory, 8A PAIR; CA PROP.65: No **Regulatory Information** This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008. Section 16. Other Information **Revision Date:** 06/07/2018 Additional Information About No data available. 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.