

vision: 09/26/2016

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Caj	man	Mixture	Revision: 09/26/2016					
	a	ccording to Regulation (EC) No. 1907/2006 as amended by (E	EC) No. 1272/2008					
	Section 1.	. Identification of the Substance/Mixture and of the	e Company/Undertaking					
1.1	Product Code:19668Product Name:Vascular Eicosanoid Urinary Metabolite LC-MS Mixture							
1.2	2 Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified use	es: For research use only, not for human or veterin	lary use.					
1.3	Details of the Supplier of	f 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					
1.4	Emergency telephone nu	umber:						
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887					
		Section 2. Hazards Identifica	ation					
2.1	Classification of the Sub	ostance or Mixture:						
	Flammable Liquids, Ca	ategory 2						
2.2	Label Elements:							
	GHS Signal Word:	Danger						
	GHS Hazard Phrases:							
	H225: Highly flammable liquid and vapor.							
	GHS Precaution Phrases:							
	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking.							
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.							
	GHS Response Phrase P303+361+353: IF ON S water/shower.	es: SKIN (or hair): Remove/take off immediately all contam	ninated clothing. Rinse skin with					
	GHS Storage and Disp	osal Phrases:						
	Please refer to Section 7	7 for Storage and Section 13 for Disposal information.						
2.3	Adverse Human Health	Material may be irritating to the mucous membrane						
	Effects and Symptoms:		-					
		May cause eye, skin, or respiratory system irritation						
		To the best of our knowledge, the toxicological prop	perties have not been thoroughly investigated.					



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Section 3. Composition/Information on Ingredients							
CAS # / Hazardous Components (Chemical Name)/ Concentration EC No./ GHS Classification RTECS # REACH Registration No. EC Index No. EC Index No. EC Index No.							
NA NA	2,3-dinor-6-keto Prostaglandin F1.alpha. (sodium salt)	< 0.001 %	NA NA	No data available.			
63250-09-9 NA	2,3-dinor Thromboxane B2	< 0.001 %	NA NA	Toxic Repro. 2: H361			
79250-60-5 NA	11-dehydro-2,3-dinor Thromboxane B2	< 0.001 %	NA NA	Toxic Repro. 2: H361			
67910-12-7 NA	11-dehydro Thromboxane B2	< 0.001 %	NA NA	Toxic Repro. 2: H361			
NA NA	(±)14,15-DiHETE	< 0.001 %	NA NA	No data available.			
NA NA	(±)11,12-DiHET	< 0.001 %	NA NA	No data available.			
192461-96-4 NA	(±)8,9-DHET	< 0.001 %	NA NA	No data available.			
79551-86-3 NA	20-HETE	< 0.001 %	NA NA	No data available.			
64-17-5 KQ6300000	Ethyl alcohol	99.992 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225			

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 15 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 15 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.
4.2	Important Symptoms and	May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude
	Effects, Both Acute and Delayed:	(weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.

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NA

(±)14,15-DiHETE

SAFETY DATA SHEET Vascular Eicosanoid Urinary Metabolite LC-MS

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			Section 5.	Fire Fighting	Measures				
5.1	Suitable	e Extinguishing	Use alcohol-resistant	foam, carbon dioxide,	water, or dry chemical spr	ay.			
	Media:								
	Unsuita	Unsuitable Extinguishing A solid water stream may be inefficient.							
	Media:								
5.2	Flamma	Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above							
	Hazard	s:	Container explosion r	may occur under fire co	onditions.				
			Emits toxic fumes und	der fire conditions.					
			Sensitive to static dise	charge.					
			Vapors can travel to a	a source of ignition and	l flash back.				
			No data available.						
	Flash P	't:	14.00 C Method Us	ed: Closed Cup					
	Explosi	ive Limits:	LEL: 3.3% at	25.0 C UEL: 1	9.0% at 25.0 C				
	Autoigr	nition Pt:	363.00 C						
5.3	Fire Fig	hting Instruction	s: As in any fire, wear se	elf-contained breathing	apparatus pressure-dema	and (NIOSH approved or			
			equivalent), and full p	rotective gear to preve	ent contact with skin and e	yes.			
			Note: Flammable as o	diluted in ethanol.					
			Section 6. Ac	cidental Relea	se Measures				
6.1	Protect	ive Precautions							
0.1		Protective Precautions, Avoid breathing vapors and provide adequate ventilation. Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,							
		ency Procedures:			r boots, safety goggles, an				
6.2	-	nmental			nment, if safe to do so.	, , ,			
0.2	Precaut								
6.3		Methods and Material For Contain spill and collect, as appropriate.							
0.0					disposal in accordance wit	h local regulations.			
	Up:								
	-61								
				Handling and					
7.1			n Avoid breathing dust/	•	s/spray.				
	in Hanc	lling:	Avoid prolonged or re						
			Keep away from sour	-	diasharra				
	-			neasures against static	discharge.				
7.2			 Keep away from heat Keep container tightly 	-					
	in Stori	ng:		iy closed. with information listed on the product insert.					
	Othor B	Precautions:	Hygroscopic.		on the product insert.				
	Other P	Tecautions.	Tiygroscopic.						
		Sec	tion 8. Exposu	re Controls/Pe	rsonal Protection	1			
8.1	Exposu	re Parameters:							
CAS	#	Partial Chemica	l Name	Britain EH40	France VL	Europe			
	NA	2,3-dinor-6-keto F1.alpha. (sodiur	-	No data.	No data.	No data.			
632	250-09-9	2,3-dinor Thromb	ooxane B2	No data.	No data.	No data.			
792	250-60-5	11-dehydro-2,3-c	linor Thromboxane B2	No data.	No data.	No data.			
679	10-12-7	11-dehvdro Thro	mboxane B2	No data.	No data.	No data.			

No data.

No data.

Multi-region format

No data.



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				1
NA	(±)11,12-DiHET	No data.	No data.	No data.
192461-96-4	(±)8,9-DHET	No data.	No data.	No data.
79551-86-3	20-HETE	No data.	No data.	No data.
64-17-5	Ethyl alcohol	TWA: 1920 mg/m3 (1000 ppm) STEL: ()	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)	No data.
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
NA	2,3-dinor-6-keto Prostaglandin F1.alpha. (sodium salt)	No data.	No data.	No data.
63250-09-9	2,3-dinor Thromboxane B2	No data.	No data.	No data.
79250-60-5	11-dehydro-2,3-dinor Thromboxane B2	No data.	No data.	No data.
67910-12-7	11-dehydro Thromboxane B2	No data.	No data.	No data.
NA	(±)14,15-DiHETE	No data.	No data.	No data.
NA	(±)11,12-DiHET	No data.	No data.	No data.
192461-96-4	(±)8,9-DHET	No data.	No data.	No data.
79551-86-3	20-HETE	No data.	No data.	No data.
64-17-5	Ethyl alcohol	PEL: 1000 ppm	TLV: 1000 ppm STEL: 1000 ppm	No data.

8.2 Exposure Controls:

 8.2.1 Engineering Controls
 Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

 (Ventilation etc.):
 levels below recommended exposure limits.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.

8.2.2 Personal protection equipment:

Eye Protection: Safety glasses

Protective 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:

Wash thoroughly after handling.

No data available.



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	ç	Section 9. Physical and Chemical Properties
9.1	Information on Basic Phy	ysical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	A solution in ethanol (1 µg/ml each compound)
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	14.00 C Method Used: Closed Cup
	Evaporation Rate:	No data.
	Flammability (solid, gas): No data available.
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C
	Vapor Pressure (vs. Air	or mm 43 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.
	Autoignition Pt:	363.00 C
9.2	Other Information	
	Percent Volatile:	No data.
		Section 10. Stability and Reactivity
10.1	Reactivity:	No data available.
10.2	Stability:	Unstable [] Stable [X]
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
	Polymerization:	Will occur [] Will not occur [X]
10.4	Conditions To Avoid:	heat, flames and sparks
10.5	Incompatibility - Materia	uls alkali metals
	To Avoid:	ammonia
		peroxides
		strong oxidizing agents
10.6	Hazardous	carbon dioxide
	Decomposition or	carbon monoxide
	Byproducts:	



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			Sectio	n 11. Toxicologica	I Informa	tion		
11.1 Information on Toxicological Effects: Chronic Toxicological Effects:			Ethanol - To (rat): 7,060 r (rabbit): 6,30 ppm (30m); (6h); Inhalat Ethanol - Inv Only select I See actual e Ethanol RTE	gical effects of this product h xicity Data: Oral TDLO (man mg/kg; Oral LD50 (mouse): 3 00 mg/kg; Inhalation LC50 (ra Inhalation TCLO (human): 2 ion LCLO (mouse): 29,300 p tation Data: Eyes (rabbit): 50 vestigated as a mutagen, rep Registry of Toxic Effects of C entry in RTECS for complete ECS Number: KQ6300000): 1.14 ml/kg; 3,450 mg/kg; (at): 20,000 pp ,500 mg/m3 (2 pm (7h); 00 mg (24h) m productive effe Chemical Subs information.	Oral TDLO (r Dral LD50 (mo m (10h); Inha 20m); Inhalation ild; Skin (rable ctor, and tum stances (RTE	man): 650 mg/ł ouse): 10.5 ml/ lation TCLO (h on LC50 (rat): bit): 20 mg (24 origen.	kg; Oral LD50 human): 1,800 5,900 mg/m3 h) moderate;
	nogenicity	1	NTP? No	IARC Monographs? No		gulated? No		
CAS		Hazardous Com			NTP	IARC	ACGIH	OSHA
	NA		-	F1.alpha. (sodium salt)	n.a.	n.a.	n.a.	n.a.
	50-09-9	2,3-dinor Thromb			n.a.	n.a.	n.a.	n.a.
	50-60-5	11-dehydro-2,3-d		oxane B2	n.a.	n.a.	n.a.	n.a.
679 ⁻	10-12-7	11-dehydro Thror			n.a.	n.a.	n.a.	n.a.
	NA	(±)14,15-DiHETE	Ē		n.a.	n.a.	n.a.	n.a.
	NA	(±)11,12-DiHET			n.a.	n.a.	n.a.	n.a.
1924	61-96-4	(±)8,9-DHET			n.a.	n.a.	n.a.	n.a.
	51-86-3	20-HETE			n.a.	n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol			n.a.	1	A4	n.a.
			Secti	on 12. Ecological	Informati	on		
12.1 12.2 12.3 12.4 12.5 12.6	2.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution wate 2.2 Persistence and Degradability: No data available. 2.3 Bioaccumulative Potential: No data available. 2.4 Mobility in Soil: No data available. 2.5 Results of PBT and vPvB No data available.				nsiderati	ons		
13.1	Waste D)isposal Method:	Dispose in a	ccordance with local, state,	and federal re	gulations.		

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ayman			Μ	lixture		Revision: 09/26/2016
		Sectior		sport Informa	ation	
I4.1 LAND T	RANSPORT (US I	DOT):		•		
DOT Prope	er Shipping Name:	Ethyl Alcoho	I Solution			
DOT Hazar	d Class:	3	FLAMMABL	E LIQUID		
UN/NA Nur	mber:	1170		Packing Gr	oup:	II
		FLAMMABLE LIQUID				
14.1 LAND T	RANSPORT (Euro	pean ADR/RID):				
ADR/RID S	hipping Name:	Ethyl Alcoho	I Solution			
UN Numbe	r:	1170		Packing Gr	oup:	II
Hazard Cla	ISS:	3 - FLAMMA	BLE LIQUID			
14.3 AIR TR	ANSPORT (ICAO/I	ATA):				
ICAO/IATA	Shipping Name:	Ethyl Alcoho	l Solution			
UN Numbe	r:	1170		Packing Gr	oup:	II
Hazard Cla	ISS:	3 - FLAMMA	BLE LIQUID	IATA Class	ification:	3
Additional Trai	nsport	-		cal, state, and fede	-	
Information:				-	-	Excepted Quantity Code of
						on, per IATA 2.6.10.
		·			-	ds/Excepted Quantity.
		Section	15. Regula	atory Inform	ation	
EPA SARA (Su	perfund Amendm	ents and Reauth	orization Act o	of 1986) Lists		
CAS #	Hazardous Com	ponents (Chemic	cal Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
NA	2,3-dinor-6-keto F salt)	Prostaglandin F1.a	alpha. (sodium	No	No	No
63250-09-9	2,3-dinor Thromb	avana P2		No	No	No
			- P2	-		
79250-60-5	11-dehydro-2,3-di		e BZ	No	No	No
67910-12-7	11-dehydro Thron	nboxane B2		No	No	No
NA	(±)14,15-DiHETE			No	No	No
NA	(±)11,12-DiHET			No	No	No
192461-96-4	(±)8,9-DHET			No	No	No
79551-86-3	20-HETE			No	No	No
64-17-5	Ethyl alcohol			No	No	No
CAS #	Hazardous Com	ponents (Chemic	cal Name)	Other US EPA o	r State Lists	
CAS # NA	Hazardous Com 2,3-dinor-6-keto F salt)		-			: No; TSCA: No; CA
	2,3-dinor-6-keto F	Prostaglandin F1.a	-	CAA HAP,ODC: PROP.65: No	No; CWA NPDES	: No; TSCA: No; CA : No; TSCA: No; CA
NA	2,3-dinor-6-keto F salt)	Prostaglandin F1.a	alpha. (sodium	CAA HAP,ODC: PROP.65: No CAA HAP,ODC: PROP.65: No	No; CWA NPDES No; CWA NPDES	
NA 63250-09-9	2,3-dinor-6-keto F salt) 2,3-dinor Thrombo	Prostaglandin F1.a	alpha. (sodium	CAA HAP,ODC: PROP.65: No CAA HAP,ODC: PROP.65: No CAA HAP,ODC: PROP.65: No	No; CWA NPDES No; CWA NPDES No; CWA NPDES	: No; TSCA: No; CA
NA 63250-09-9 79250-60-5	2,3-dinor-6-keto F salt) 2,3-dinor Thromb 11-dehydro-2,3-di	Prostaglandin F1.a	alpha. (sodium	CAA HAP,ODC: PROP.65: No CAA HAP,ODC: PROP.65: No CAA HAP,ODC: PROP.65: No CAA HAP,ODC: PROP.65: No	No; CWA NPDES No; CWA NPDES No; CWA NPDES No; CWA NPDES	: No; TSCA: No; CA : No; TSCA: No; CA



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$\mathbf{\sigma}$		-	Jrinary Metabolite LC-MS	Devision 00/00/0040		
Cayman			lixture	Revision: 09/26/2016		
	1		PROP.65: No			
NA	(±)11,12-DiHET		CAA HAP,ODC: No; CWA NPDES: No; PROP.65: No	TSCA: No; CA		
192461-96-4	(±)8,9-DHET		CAA HAP,ODC: No; CWA NPDES: No; PROP.65: No	TSCA: No; CA		
79551-86-3	20-HETE		CAA HAP,ODC: No; CWA NPDES: No; PROP.65: No	TSCA: No; CA		
64-17-5	Ethyl alcohol		CAA HAP,ODC: No; CWA NPDES: No; Inventory; CA PROP.65: No	TSCA: Yes -		
Regulatory Infe Statement:	ormation	This SDS was prepared in accor No.1272/2008.	rdance with 29 CFR 1910.1200 and Regula	tion (EC)		
		Section 16. Oth	er Information			
Revision Date:		09/26/2016				
Additional Info	rmation About	No data available.				
This Product:						
		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.				