

		ding to Regulation (EC) No. 1907/2006 as amended by (					
	Section 1. Ide	entification of the Substance/Mixture and of th	e Company/Undertaking				
1.1	<b>Product Code:</b> 9002298						
	Product Name:	Thromboxane B2-biotin					
	Synonyms:		lroxyoct-1-en-1-yl)tetrahydro-2H-pyran-3-yl)-N-(				
		(5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3 mide; TXB2-biotin;	,4-d]imidazol-4-yl)pentanamido)pentyl)hept-5-er				
1.2	Relevant identified uses of t	he substance or mixture and uses advised aga	ainst:				
	Relevant identified uses:	For research use only, not for human or veterin					
1.3	Details of the Supplier of the	·					
	Company Name:	Cayman Chemical Company					
		1180 E. Ellsworth Rd.					
	<b>147</b> 1 147 111 11	Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com	4 (704)074 0005				
	Information:	Cayman Chemical Company	+1 (734)971-3335				
1.4	Emergency telephone numb						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identification	ation				
2.1	Classification of the Substan	nce or Mixture:					
	Classification according to Regulation (EC) No 1272/2008 [CLP]:						
2.1.1	Classification according to	Regulation (EC) No 1272/2008 [CLP]:					
2.1.1	Classification according to Flammable Liquids, Categ						
2.1.1	-	ory 2					
	Flammable Liquids, Categ	ory 2					
2.1.1 2.2 2.2.1	Flammable Liquids, Categ Toxic To Reproduction, Ca Label Elements:	ory 2					
2.2	Flammable Liquids, Categ Toxic To Reproduction, Ca Label Elements:	ory 2 ategory 2					
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2.2	Flammable Liquids, Categ Toxic To Reproduction, Ca Label Elements: Labeling according to Regu	ory 2 ategory 2 Ilation (EC) No 1272/2008 [CLP]:					
2.2	Flammable Liquids, Categ Toxic To Reproduction, Ca Label Elements: Labeling according to Regu GHS Signal Word:	ory 2 ategory 2 Ilation (EC) No 1272/2008 [CLP]: Danger					
2.2	Flammable Liquids, Categ Toxic To Reproduction, Ca Label Elements: Labeling according to Regu GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable liqu	ory 2 ategory 2 Ilation (EC) No 1272/2008 [CLP]: Danger					
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2.2	Flammable Liquids, Categoria Toxic To Reproduction, Categoria Label Elements: Labeling according to Regular GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable liquid H361: Suspected of damaging	ategory 2 alation (EC) No 1272/2008 [CLP]: Danger and and vapor. ng fertility or the unborn child.					
2.2	Flammable Liquids, Categorial Toxic To Reproduction, Categorial Label Elements: Labeling according to Regular GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable liquid H361: Suspected of damaging GHS Precaution Phrases: P201: Obtain special instruction	ategory 2 alation (EC) No 1272/2008 [CLP]: Danger and and vapor. ng fertility or the unborn child.	od.				
2.2	Flammable Liquids, Categoria Toxic To Reproduction, Categoria Label Elements: Labeling according to Regular Control Control Co	ategory 2 alation (EC) No 1272/2008 [CLP]: Danger and and vapor. ng fertility or the unborn child.					
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# SAFETY DATA SHEET Thromboxane B2-biotin

2.3	Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.							
	Effects and Symptoms:	May be harmful by inhalation	, ingestion, or skin a	bsorption.				
		May cause eye, skin, or resp	iratory system irritati	on.				
Possible risk of congenital malformation in the fetus.								
Suspected human reproductive toxicant.								
		Suspected of damaging fertility or the unborn child.						
		To the best of our knowledge	e, the toxicological pr	operties have not	been thoroughly investigated.			
	Sec	tion 3. Composition	/Information of	on Ingredie	nts			
CAS # / Hazardous Components (Chemical Name)/ Concentration EC No./ GHS Classification								
	CS # REACH Registra	ation No.		EC Index No.				
	••							

NA		0.3 %	NA	TOXIC Repro. 2. 11301
64-17-5 KQ6300000	Ethyl alcohol	99.5 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225

4.1	Description of First Aid	No data available.
	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	d May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude
	Effects, Both Acute and	(weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.
	Delaved:	

	Effects, Both Acute an Delayed:	<b>d</b> (weakness, exhaustion), liver damage, harcosis, reproductive effects, teratogenic effects.					
		Section 5. Fire Fighting Measures					
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.					
	Media:	Use water spray to cool fire-exposed containers.					
	Unsuitable Extinguishi	ng A solid water stream may be inefficient.					
1	Media:						
5.2	Flammable Properties	andCan release vapors that form explosive mixtures at temperatures at or above the flashpoint.					
	Hazards:	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.					
	Flash Pt:	14.00 C Method Used: Closed Cup					
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C					
	Autoignition Pt:	363.00 C					
5.3	Fire Fighting Instruction	ns: 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 ethanol.					
		Multi-region format					

Multi-region format



Multi-region format

			Section 6. Ac	cidental Release Me	easures	
6.1	Protect	ive Precautions,	Avoid breathing vap	ors and provide adequate venti	lation.	
	Protect	ive Equipment an	d As conditions warrar	nt, wear a NIOSH approved sel	f-contained breathing appa	aratus, or respirator,
	Emerge	ency Procedures:	and appropriate pers	sonal protection (rubber boots,	safety goggles, and heavy	rubber gloves).
6.2	Enviro	nmental	Take steps to avoid	release into the environment, if	safe to do so.	
	Precau	tions:				
6.3	Method	Is and Material Fo	r Contain spill and col	lect, as appropriate.		
	<b>Containment and Cleaning</b> Transfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:					
			Section 7	Handling and Stor	ade	
<b></b> 7.1	Procau	tions To Be Taker		fume/gas/mist/vapours/spray.	ugo	
	in Hand		Avoid prolonged or re			
	mman	anng.	Keep away from sour			
				neasures against static dischar	ge.	
7.2	Precau	tions To Be Taker	N Keep away from heat	<b>C</b>	-	
	in Stori		Keep container tightly	•		
		U	Store in accordance	with information listed on the p	roduct insert.	
	Other F	Precautions:	Hygroscopic.			
		Sec	tion 8. Exposu	re Controls/Persona	al Protection	
8.1	Exposu	re Parameters:	•			
CAS	#	Partial Chemica	I Name	Britain EH40	France VL	Europe
	NA	Thromboxane B2	2-biotin	No data.	No data.	No data.
64	-17-5	Ethyl alcohol		TWA: 1920 mg/m3 (1000 ppm)	TWA: 1900 mg/m3 (1000	No data.
				STEL: ()	ppm)	
					STEL: 9500 mg/m3 (5000 ppm)	
CAS	#	Partial Chemica	I Name	OSHA TWA	ACGIH TWA	Other Limits
	NA	Thromboxane B2		No data.	No data.	No data.
64	-17-5	Ethyl alcohol		PEL: 1000 ppm	TLV: 1000 ppm	No data.
8.2		re Controls:				140 data.
8.2.1	-	ering Controls	l lee process enclosu	res, local exhaust ventilation, c	or other engineering contro	le to control airborne
0.2.1	-	ation etc.):	•	ended exposure limits.		
0 7 7	•	al protection equi				
8.2.2		otection:	Safety glasses			
	•	tive Gloves:	Compatible chemical	resistant deves		
			-	-resistant gioves		
		Protective Clothing	-	nirotor, oo oonditiono warrant		
	-	atory Equipment	inicon approved res	pirator, as conditions warrant.		
	(Specify Type): Work/Hygienic/Maintenan Do not take internally.					
	ce Prac			ilizing this material should be e	auinned with an evenage	and a safety shower
	ce Prac	cices:	Wash thoroughly after	-	equipped with an eyewash	and a safety shower
			No data available.	. nanomig.		
			ino dala avalladie.			



	S	ection 9. Physical and Chemical Properties
9.1	Information on Basic Phy	sical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	A solution in ethanol
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	14.00 C Method Used: Closed Cup
	Evaporation Rate:	No data.
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C
	Vapor Pressure (vs. Air o	or mm 43 MM_HG at 20.0 C
	Hg):	
	Vapor Density (vs. Air = 1	I): No data.
	Specific Gravity (Water =	1): No data.
	Solubility in Water:	No data.
	Autoignition Pt:	363.00 C
9.2	Other Information	
0.2	Percent Volatile:	No data.
	Molecular Formula & Wei	
		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 - Material	<b>s</b> alkali metals
	To Avoid:	ammonia
		peroxides
		strong oxidizing agents
10.6	Hazardous	carbon dioxide
	Decomposition Or	carbon monoxide
	Byproducts:	
1		



# SAFETY DATA SHEET Thromboxane B2-biotin

			Sectio	n 11. Toxicolog	jical In	formati	on		
11.1	Informat	ion on	The toxicolog	gical effects of this prod	luct have r	not been th	oroughly s	tudied.	
	Toxicolo	gical Effects:	Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50						
			(rat): 7,060 r	ng/kg; Oral LD50 (mous	se): 3,450	mg/kg; Ora	al LD50 (m	ouse): 10.5 ml/	kg; Oral LD50
			(rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800						
			ppm (30m);	Inhalation TCLO (huma	n): 2,500 ı	mg/m3 (20	m); Inhalati	on LC50 (rat):	5,900 mg/m3
			(6h); Inhalati	on LCLO (mouse): 29,3	300 ppm (7	7h);			
			Ethanol - Irri	tation Data: Eyes (rabbi	it): 500 mg	g (24h) milo	l; Skin (rab	bit): 20 mg (24	h) moderate;
	Chronic	Toxicological	Ethanol - Inv	restigated as a mutagen	n, reproduc	ctive effect	or, and tur	norigen.	
	Effects:		-	Registry of Toxic Effects			nces (RTE	CS) data is pre	sented here.
				ntry in RTECS for comp		mation.			
				CS Number: KQ63000					
Carci	nogenicity	/:	NTP? No	IARC Monographs? I	No O	SHA Regu	lated? No		
CAS		Hazardous Com		emical Name)	<u> </u>	ТР	IARC	ACGIH	OSHA
	NA	Thromboxane B2	2-biotin		n.	.a.	n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol			n.	.a.	1	A4	n.a.
			Secti	on 12. Ecologio	cal Info	ormatio	n		
12.1	Toxicity	:	Avoid releas	e into the environment.					
			Runoff from	fire control or dilution w	ater may o	cause pollu	ition.		
12.2	Persiste	nce and	No data avai	lable.					
	Degrada	bility:							
12.3	Bioaccu	mulative	No data avai	lable.					
	Potentia	l:							
12.4	Mobility	in Soil:	No data avai	lable.					
12.5	Results	of PBT and vPvB	No data ava	ilable.					
	assessm	nent:							
12.6	Other ad	lverse effects:	No data ava	ilable.					
			Sectio	n 13. Disposal	Consid	deratio	ns		
13.1	Waste D	isposal Method:	Dispose in a	ccordance with local, st	ate, and fe	ederal regu	llations.		
			Sect	ion 14. Transpo	ort Info	ormatio	n		
14.1	LAND T	RANSPORT (US I	DOT):						
D	OT Prope	r Shipping Name	Ethyl Ald	cohol Solution					
D	OT Hazar	d Class:	3	FLAMMABLE L	IQUID				
U	N/NA Nun	nber:	1170		Packir	ng Group:		II	
			FLOMMOBLE L						
14.1		RANSPORT (Euro							
		hipping Name:	-	cohol Solution					
	IN Number		Ethyl Aid 1170		Packin	ng Group:		II	
	lazard Cla		-	MMABLE LIQUID		ig Group.			
								Ν	Iulti-region forma



14.3 AIR TRANSPORT (ICAO/	ATA):				
ICAO/IATA Shipping Name:	Ethyl Alcohol Solution				
UN Number:	1170	Packing Group:	II		
Hazard Class:	3 - FLAMMABLE LIQUID	IATA Classification:	3		
Additional Transport Transport in accordance with local, state, and federal regulations.					
Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Co					
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. Regula	tory Information			

•	-	ents and Reauthorization Act	-			
CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
NA	Thromboxane B2-biotin		No	No	No	
64-17-5	Ethyl alcohol		No	No	No	
CAS # Hazardous Com		nponents (Chemical Name) Other US EPA or State Lists				
NA Thromboxane B2-biotin			CAA HAP,ODC: PROP.65: No	No; CWA NPDES:	No; TSCA: No; CA	
64-17-5	Ethyl alcohol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Ot	her Informatio	on		
Revision Date	<b>e</b> :	04/20/2015				
Additional Information About This Product:		No data available.				
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howe express or implied, with respec- use. Users should make their of	ver, we make no war t to such information	ranty of merchanta , and we assume n	bility or any other warranty to liability resulting from its	

their particular purposes.