

## SAFETY DATA SHEET

**Eicosanoid Affinity Column Elution Solution** 

Revision: 10/17/2019 Supersedes Revision: 03/23/2017

		according t	o Regulation (EC) No. 1907/2006 as a	amended by (EC) No. 2015/8	830 and US OSHA HCS	2015				
			entification of the Substar							
	Duradurat					lacitating				
1.1	Product Product		400230 Ficosanoid Affinity Colum	nn Flution Solution						
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
1.2	Relevant identified uses of the substance or mixture and uses advised against:									
	Relevant identified uses: For research use only, not for human or veterinary use.									
1.3			e Safety Data Sheet:							
	Comp	any Name:	Cayman Chemical Company 1180 E. Ellsworth Rd.							
			Ann Arbor, MI 48108							
	Web s	ite address:	www.caymanchem.com							
	Inform	nation:	Cayman Chemical Comp	bany	+1 (734	4)971-3335				
1.4	Emerge	ency telephone numb	per:							
	Emerg	gency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300				
			CHEMTREC Outside US	SA and Canada:	+1 (70	3)527-3887				
			Section 2. Ha	zards Identific	cation					
2.1	Classifi	cation of the Substa	nce or Mixture:							
	Flamn	nable Liquids, Categ	jory 2							
2.2	Label E	lements:								
	GHS S	Signal Word:	Danger							
		Hazard Phrases:	Dangoi							
	H225:	Highly flammable liqu	iid and vapor.							
	GHS F	GHS Precautionary Phrases:								
	P210:	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking.								
	P280:	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.								
	GHS Response Phrases:									
	P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with									
	water/shower.									
	GHS Storage and Disposal Phrases:									
	Please refer to Section 7 for Storage and Section 13 for Disposal information.									
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 absorption. May cause eye, skin, or respiratory system irritation.									
To the best of our knowledge, the toxicological properties have not been t						been thoroughly investigated.				
					-					
<u> </u>		1	on 3. Composition	1		1				
CAS RTE	5#/ CS#	Hazardous Compo REACH Registratio	nents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification				
	4-17-5 300000	Ethyl alcohol 01-2119457610-43-000	00	95.0 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225				
	32-18-5 10000	Water na		5.0 %	231-791-2 NA	No GHS classifications apply.				

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		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 contaminate 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 Effects, Both Acute and Delayed:	May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, 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 Extinguishing	A solid water stream may be inefficient.							
	Media:								
5.2	Flammable Properties an	Flammable Properties and Can 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.							
		No data available.							
	Flash Pt:	14.00 C Method Used: Closed Cup							
		LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C							
	Explosive Limits:								
5.3	Autoignition Pt: Fire Fighting Instructions	363.00 C S: 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.							
		Section 6. Accidental Release Measures							
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.							
	Protective Equipment and	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator							
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).							
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.							
	Precautions:								
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.							
	<b>Containment and Cleaning</b> Transfer to a chemical waste container for disposal in accordance with local regulations.								
	Up:								
	<b>ч</b> р.								



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			Section 7. Hand	ling and Storage					
7.1	nist/vapours/spray.								
	in Handling:	Avoid prolonged or repeated exposure.							
	C	Keep	away from sources of ignit	tion.					
Take precautionary measures against static discharge.									
7.2	Precautions To Be Taken	n Keep away from heat, sparks, and flame.							
	in Storing: Keep container tightly closed.								
	-	Store	in accordance with inform	ation listed on the product insert.					
	Other Precautions:	Hygro	scopic						
	Sect	ion 8		trols/Personal Protection					
8.1	Exposure Parameters:								
CAS #			Jurisdiction	Recommended Exposure Limits	Notations				
64-17	-5 Ethyl alcohol		ACGIH TLV	TLV: 1000 ppm					
			France VL	TWA: 1900 mg/m3 (1000 ppm)					
-				STEL: 9500 mg/m3 (5000 ppm)					
-			OSHA PELs Britain EH40	PEL: 8H TWA:1000 ppm (1900 mg/m3) TWA: 1920 mg/m3 (1000 ppm)					
				STEL: ()					
8.2	Exposure Controls:								
8.2.1	Engineering Controls	Use p	rocess enclosures, local e	xhaust ventilation, or other engineering controls to	control airborne				
	(Ventilation etc.):	levels	below recommended exp	osure limits.					
8.2.2	Personal protection equip	oment:							
	Eye Protection: Safety glasses								
	Protective Gloves: Compatible chemical-resistant gloves								
	Other Protective Clothing	-	-						
	-	conditions warrant							
Respiratory EquipmentNIOSH approved respirator, as conditions warrant.(Specify Type):									
	Work/Hygienic/Maintenan	Dono	t take internally						
		Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety							
	ce Practices:		shower.						
		Wash thoroughly after handling.							
			No data available.						
<b></b>									
	S	ectio	n 9. Physical an	d Chemical Properties					
9.1	Information on Basic Phys	sical ar	d Chemical Properties						
	Physical States:		[] Gas [X] Liquid	[ ] Solid					
	Appearance and Odor:	95:5 ethanol/water solution							
	pH:	No data.							
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	r mm	43 MM_HG at 20.0 0	2					
	Hg):								
	Vapor Density (vs. Air = 1	):	No data.						
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	TEMICAL						Su	persedes Revis	ion: 03/23/2017							
	Specific	Gravity (Water =	⊧ <b>1):</b> ।	lo data	1.											
	Solubility in Water: Octanol/Water Partition			No data.												
				No data.												
	Coeffici	ent:														
	Autoign	ition Pt:	3	363.00	С											
	Decomp	osition Temperat	ture: N	lo data	1.											
	Viscosit	у:	1	lo data	1.											
9.2	Other Inf	ormation														
	Percent	Volatile:	1	No data	1.											
			Se	ctior	n 10. Stability ar	nd Reacti	vity									
10.1	Reactivi	ty:	No data	availat	ble.											
10.2	Stability	:	Unstable	e[]	Stable [ X ]											
10.3	Stability	Note(s):	Stable if stored in accordance with information listed on the product insert.													
	Polymer	ization:	Will occ	ur[]	Will not occur [ X ]											
10.4	Conditio	ons To Avoid:	heat, fla	mes, a	nd sparks											
10.5	Incompa	atibility - Material	<b>s</b> alkali me	etals												
	To Avoi	d:	ammoni	a												
			peroxide	s												
			strong o	strong oxidizing agents												
10.6	Hazardous carbo			carbon dioxide												
	Decomp	osition or	carbon r	nonoxi	de											
	Byprodu	icts:														
			Sec	tion	11. Toxicologica	al Informa	ation									
11.1	Information on The to			ne toxicological effects of this product have not been thoroughly studied.												
	Toxicolo	ogical Effects:	Ethanol	Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50												
			(rat): 7,0	60 mg	/kg; Oral LD50 (mouse):	3,450 mg/kg;	Oral LD50 (mo	use): 10.5 ml/	kg; Oral LD50							
			(rabbit):	6,300 ı	mg/kg; Inhalation LC50 (	rat): 20,000 p	pm (10h); Inhal	ation TCLO (h	uman): 1,800							
			ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3													
			<ul> <li>(6h); Inhalation LCLO (mouse): 29,300 ppm (7h);</li> <li>Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;</li> <li>Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effector, and tumorigen</li> <li>Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.</li> <li>See actual entry in RTECS for complete information.</li> <li>Ethanol RTECS Number: KO6300000</li> </ul>													
Chronic Toxicological																
		Effects: Carcinogenicity:														
Ethanol RTECS Number: KQ6300000																
NTP? N										IARC Monographs? No		egulated? No	400"			
CAS #										Hazardous Com	ponents	(Chem	lical Name)	NTP	IARC	ACGIH
	17-5				Ethyl alcohol				n.a.	1	A4	n.a.				
7732-18-5 Water					n.a.	n.a.	n.a.	n.a.								



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Section 12. Ecological Information								
12.1 Toxicity:			Avoid release into the environment.					
			Runoff from fire co	ontrol or dilutio	n water may cause p	ollution.		
12.2	Persiste Degrada	ence and ability:	No data available.					
12.3	-	imulative	No data available.					
12.4		in Soil:	No data available.					
12.5	-	of PBT and vPvB						
	assessr							
12.6	Other a	dverse effects:	No data available.					
			Section 1	3. Dispos	al Considerat	ions		
13.1	Waste D	Disposal Method:	Dispose in accord	ance with loca	l, state, and federal r	egulations.		
			Section	14. Trans	sport Informat	ion		
14.1	LAND T	RANSPORT (US D	ЮТ):					
D	OT Prope	r Shipping Name:	Ethyl alcohol	solution				
D	OT Hazar	d Class:	3	FLAMMABL	E LIQUID			
UI	N/NA Nun	nber:	UN1170		Packing Grou	ip:	II	
			FLUMMABLE LICUID					
14.1		RANSPORT (Euro						
ADR/RID Shipping Name:			Ethyl alcohol	solution				
UN Number:			1170 Packing Group: II 3 - FLAMMABLE LIQUID				II	
на 14.3	ALD TR		-					
		ANSPORT (ICAO/I	Ethyl alchoho	Locution				
ICAO/IATA Shipping Name: UN Number:			1170	Solution	Packing Grou		Ш	
Hazard Class:			3 - FLAMMAE		IATA Classifie	-	3	
	Additional Transport       Transport in accordance with local, state, and federal regulations.						C C	
	Information: 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 packag	ing does not h	ave to be labeled as	Dangerous Goods/E	xcepted Quantity.	
			Section 1	5. Regul	atory Informat	tion		
EPA S	SARA (Sı	perfund Amendm	ents and Reautho	rization Act c	of 1986) Lists			
CAS	#		ponents (Chemica	I Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
64	-17-5	Ethyl alcohol			No	No	No	
773	732-18-5 Water			No	No	No		
CAS	#	Hazardous Components (Chemical Name) Other US EPA or State Lists						
64	-17-5	Ethyl alcohol			CAA HAP,ODC: No Inventory; CA PRO	o; CWA NPDES: No DP.65: No	; TSCA: Yes -	
773	7732-18-5 Water			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -				
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1	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. Other Information					
Revision Date:	10/17/2019					
Additional Information About This Product:	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.					