

-	CHIMICAL		Supersedes Revision: 05/26/20					
according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008								
	Section 1. Identification of the Substance/Mixture and of the Company/Undertaking							
.1	Product Code:	62910						
	Product Name:	7-hydroxycoumarinyl Arachidonate						
	Synonyms:	5Z,8Z,11Z,14Z-eicosatetraenoic acid, 2-oxo-2H	1-1-benzopyran-7-yl ester; Umbelliferyl					
		Arachidonate;						
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						
	Information:	Cayman Chemical Company	+1 (734)971-3335					
4	Emergency telephone nur	nber:						
•	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Section 2. Hazards Identifica						
1	Classification of the Subs	tance or mixture:						
.1.1		to Regulation (EC) No 1272/2008 [CLP]:						
	Flammable Liquids, Cate	egory 2						
.2	Label Elements:							
.2.1	Labeling according to Regulation (EC) No 1272/2008 [CLP]:							
	GHS Signal Word:	Danger						
	GHS Hazard Phrases:							
	H225: Highly flammable liquid and vapor.							
	GHS Precaution Phrases:							
	GHS Precaution Phrases: P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking.							
	P210. Reep away from {hear/spans/open names/hot surfaces} No shoking. 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.							



Page: 2 of 6

Revision: 04/10/2015 Supersedes Revision: 05/26/2005

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 thoroughly investigated.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.								
		Sect	tion 3. Composition	/Information of	on Ingredie	nts		
CAS RTEC		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
161180-11-6 Umbelliferyl Arachido NA		Umbelliferyl Arachid	onate	5.0 %	NA NA	No data available.		
	64-17-5 Ethyl alcohol KQ6300000			95.0 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225		
			Section 4. Fi	rst Aid Measu	ires			
4.1	Measu		No data available.					
	In Case	e of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		respiration or giv	e oxygen by trained personnel.		
	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	e 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 (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. Delayed:					-		
			Section 5. Fire	Fighting Mea	sures			
5.1	Suitabl Media:	e Extinguishing	Use alcohol-resistant foam, c Use water spray to cool fire-e		, or dry chemical	spray.		
	Unsuitable Extinguishing A solid water stream may be inefficient. Media:							
5.2	Flamma Hazard	-	dCan release vapors that form Container explosion may occ Emits toxic fumes under fire of Sensitive to static discharge. Vapors can travel to a source	ur under fire conditio conditions.	ins.	t or above the flashpoint.		
	Flash F	Pt:	14.00 C Method Used: Clo	osed Cup				
	-	ive Limits: nition Pt:	LEL: 3.3% at 25.0 C 363.00 C	UEL: 19.0%	at 25.0 C			
5.3	Fire Fig	phting Instructions	:As in any fire, wear self-conta	ained breathing appa	ratus pressure-de	emand (NIOSH approved or		

equivalent), and full protective gear to prevent contact with skin and eyes.

Note: Flammable as diluted in ethanol.



Multi-region format

			Section 6. Ac	cidental Release Me	easures			
6.1	Protect	ve Precautions,	Avoid breathing vapo	ors and provide adequate venti	lation.			
Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained br					f-contained breathing appa	aratus, or respirator,		
	Emerge	ncy Procedures:	and appropriate pers	onal 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	Method	s and Material Fo	r Contain spill and coll	ect, as appropriate.				
	Contain	ment and Cleanin	gTransfer to a chemic	al waste container for disposal	in accordance with local re	egulations.		
	Up:							
			Section 7.	Handling and Stor	age			
7.1	Precaut	ions To Be Taken	Avoid breathing dust/	fume/gas/mist/vapours/spray.				
	in Hand	ling:	Avoid prolonged or re	epeated exposure.				
			Keep away from sour	ces of ignition.				
			Take precautionary m	neasures against static dischar	ge.			
7.2	Precaut	ions To Be Taken	Keep away from heat	•				
	in Stori	ng:	Keep container tightly					
				with information listed on the p	roduct insert.			
	Other P	recautions:	Hygroscopic.					
		Sec	tion 8. Exposu	re Controls/Persona	al Protection			
8.1	Exposu	e Parameters:	•					
CAS #	4	Partial Chemical	Name	Britain EH40	France VL	Europe		
16118	80-11-6	Umbelliferyl Arach	nidonate	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		
	80-11-6	Umbelliferyl Arach		No data.	No data.	No data.		
	-17-5	Ethyl alcohol		PEL: 1000 ppm	TLV: 1000 ppm	No data.		
8.2		e Controls:						
8.2.1	-	ering Controls	Use process enclosu	res, local exhaust ventilation, c	or other engineering control	ls to control airborne		
-	-	tion etc.):	-	ended exposure limits.	5 5			
8.2.2	-	al protection equi	pment:					
		tection:	Safety glasses					
	Protect	Protective Gloves: Compatible chemica		I-resistant gloves				
	Other P	rotective Clothing						
	Respiratory Equipment		NIOSH approved respirator, as conditions warrant.					
	(Specify Type):							
	Work/H	ygienic/Maintenar	Do not take internally	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.					
I								
1						Multi-rogion forma		



		Supersedes Revision: 05/26/2005					
	S	Section 9. Physical and Chemical Properties					
9.1	Information on Basic Physical 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): 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.					
	Molecular Formula & We						
		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					
	Incompatibility - Material						
10.5	To Avoid:	ammonia					
		peroxides					
		strong oxidizing agents					
10.6	Hazardous	carbon dioxide					
	Decomposition Or	carbon monoxide					
	Byproducts:						



Multi-region format

	HEMICAL						upersedes Revis	
			Section 11. Toxic	cological I	nforma	ition		
11.1 Carcir	Information on Toxicological Effects:The toxicological effects of Ethanol - Toxicity Data: Ora (rat): 7,060 mg/kg; Oral LD 			this product have not been thoroughly studied. al TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50 50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 lation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800 O (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3 use): 29,300 ppm (7h); res (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate; mutagen, reproductive effector, and tumorigen. tic Effects of Chemical Substances (RTECS) data is presented here. f or complete information.				
CAS	#	Hazardous Com	ponents (Chemical Name)		NTP	IARC	ACGIH	OSHA
1611	80-11-6	Umbelliferyl Arac	hidonate		n.a.	n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol			n.a.	1	A4	n.a.
			Section 12. Eco	ological In	formati	on		
12.1	Toxicity:		Avoid release into the enviro	nment.				
12.1	loxicity:		Avoid release into the enviro Runoff from fire control or di		iy cause po	ollution.		
12.1 12.2	Persister	nce and			iy cause po	bllution.		
12.2	Persister Degrada	nce and bility:	Runoff from fire control or di No data available.		iy cause po	ollution.		
	Persister Degrada Bioaccur	nce and bility: nulative	Runoff from fire control or di		iy cause po	ollution.		
12.2 12.3	Persister Degradal Bioaccur Potential	nce and bility: nulative :	Runoff from fire control or di No data available.		iy cause po	ollution.		
12.2	Persister Degrada Bioaccur Potential Mobility	nce and bility: nulative : in Soil:	Runoff from fire control or di No data available. No data available.		iy cause po	ollution.		
12.2 12.3 12.4	Persister Degrada Bioaccur Potential Mobility	nce and bility: nulative : in Soil: of PBT and vPvB	Runoff from fire control or di No data available. No data available. No data available.		iy cause po	ollution.		
12.2 12.3 12.4	Persister Degradal Bioaccur Potential Mobility Results o assessm	nce and bility: nulative : in Soil: of PBT and vPvB	Runoff from fire control or di No data available. No data available. No data available.		iy cause po	ollution.		
12.2 12.3 12.4 12.5	Persister Degradal Bioaccur Potential Mobility Results o assessm	nce and bility: nulative : in Soil: of PBT and vPvB ent:	Runoff from fire control or di No data available. No data available. No data available. No data available.	lution water ma				
12.2 12.3 12.4 12.5	Persister Degradal Bioaccur Potential Mobility Results o assessm Other ad	nce and bility: nulative : in Soil: of PBT and vPvB ent: verse effects:	Runoff from fire control or di No data available. No data available. No data available. No data available. No data available.	oosal Cons	siderati	ons		
12.2 12.3 12.4 12.5 12.6	Persister Degradal Bioaccur Potential Mobility Results o assessm Other ad	nce and bility: nulative : in Soil: of PBT and vPvB ent: verse effects:	Runoff from fire control or di No data available. No data available. No data available. No data available. No data available. Section 13. Disp	oosal Cons local, state, and	siderati	ONS egulations.		
12.2 12.3 12.4 12.5 12.6	Persister Degradal Bioaccur Potential Mobility Results o assessm Other ad	nce and bility: nulative : in Soil: of PBT and vPvB ent: verse effects:	Runoff from fire control or di No data available. No data available. No data available. No data available. No data available. Section 13. Disp Dispose in accordance with Section 14. Tra	oosal Cons local, state, and	siderati	ONS egulations.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Persister Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di	nce and bility: nulative : in Soil: of PBT and vPvB ent: verse effects: sposal Method:	Runoff from fire control or di No data available. No data available. No data available. No data available. No data available. Section 13. Disp Dispose in accordance with Section 14. Tra	oosal Cons local, state, and	siderati	ONS egulations.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Persister Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND TR OT Proper OT Hazaro	nce and bility: nulative : in Soil: of PBT and vPvB ent: verse effects: sposal Method: RANSPORT (US I Shipping Name: I Class:	Runoff from fire control or di No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disp Dispose in accordance with Section 14. Tra DOT): Ethyl Alcohol Solution 3 FLAMM	oosal Cons local, state, and ansport In	siderati d federal re formati	ONS gulations.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Persister Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND TH OT Proper	nce and bility: nulative : in Soil: of PBT and vPvB ent: verse effects: sposal Method: RANSPORT (US I Shipping Name: I Class:	Runoff from fire control or di No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disp Dispose in accordance with Section 14. Tra DOT): Ethyl Alcohol Solution	oosal Cons local, state, and ansport In	siderati	ONS gulations.	11	
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Persister Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND TR OT Proper OT Hazaro	nce and bility: nulative : in Soil: of PBT and vPvB ent: verse effects: sposal Method: RANSPORT (US I Shipping Name: I Class:	Runoff from fire control or di No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disp Dispose in accordance with Section 14. Tra DOT): Ethyl Alcohol Solution 3 FLAMM	oosal Cons local, state, and ansport In	siderati d federal re formati	ONS gulations.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Persister Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND TH OT Proper OT Hazaro N/NA Num	nce and bility: mulative : in Soil: of PBT and vPvB ent: verse effects: sposal Method: RANSPORT (US I Shipping Name: I Class: iber:	Runoff from fire control or di No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disp Dispose in accordance with Section 14. Tra Dot): Ethyl Alcohol Solution 3 FLAMIV 1170	oosal Cons local, state, and ansport In	siderati d federal re formati	ONS gulations.		
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D ⁱ U 14.1	Persister Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND TH OT Proper OT Hazaro N/NA Num	nce and bility: mulative : in Soil: of PBT and vPvB ent: verse effects: sposal Method: RANSPORT (US I Shipping Name: ber:	Runoff from fire control or di No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disp Dispose in accordance with Section 14. Tra DOT): Ethyl Alcohol Solution 3 FLAMIV 1170	osal Cons local, state, and ansport In IABLE LIQUID Pac	siderati d federal re formati king Grou	ONS egulations. ON	I	
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1 A U	Persister Degradal Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND TH OT Proper OT Hazaro N/NA Num	nce and bility: nulative : in Soil: of PBT and vPvB ent: verse effects: sposal Method: RANSPORT (US I Shipping Name: d Class: aber:	Runoff from fire control or di No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disp Dispose in accordance with Section 14. Tra Dotp: Ethyl Alcohol Solution 3 FLAMIV 1170	oosal Cons local, state, and ansport In IABLE LIQUID Pac	siderati d federal re formati	ONS egulations. ON		



Revision: 04/10/2015 Supersedes Revision: 05/26/2005

14.3 AIR TRANSPORT (ICAO/IATA):

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 loca	I, state, and federal regulations.				
Information:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code o					
	E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, p					
	Therefore packaging does not have	ve to be labeled as Dangerous Go	ods/Excepted Quantity.			

Section 15. Regulatory Information

EPA SARA (Su	uperfund Amendn	nents and Reauthorization Act	of 1986) Lists				
CAS #	1	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
161180-11-6	Umbelliferyl Arac	hidonate	No	No	No		
64-17-5	Ethyl alcohol		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	Other US EPA or State Lists			
161180-11-6	Umbelliferyl Arac	hidonate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
64-17-5	Ethyl alcohol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Ot	her Information	on			
Revision Date:		04/10/2015					
Additional Info This Product:	rmation About	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 their particular purposes.	ver, we make no wa t to such informatior	rranty of merchanta n, and we assume r	ability or any other warranty no liability resulting from its		