

Multi-region format

		ng to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83						
	Section 1.	Identification of the Substance/Mixture and of the	he Company/Undertaking					
1.1	Product Code:	9001072						
	Product Name:	17(R)-Resolvin D1 methyl ester						
	Synonyms:	7S,8R,17R-trihydroxy-4Z,9E,11E,13Z,15E,19Z						
	Aspirin-triggered-Resolvin D1 methyl ester; AT-RvD1 methyl ester; 17-epi-Resolvin D1 me ester; 17(R)-RvD1 methyl ester;							
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.							
.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					
1.4	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 Identific	ation					
2.1	Classification of the Subs							
<u></u>	Flammable Liquids, Cat							
2.2	Label Elements:	ds, Category 2						
	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.							
	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking. 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	Causes serious eye irritation.						
	Effects and Symptoms:	Material may be irritating to the mucous membran						
		May be harmful by inhalation, ingestion, or skin ab	psorption.					
		May cause skin or respiratory system irritation.						
		To the best of our knowledge, the toxicological pro	operties have not been thoroughly investigated.					



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CAS #/ RTECS # Hazardous Components (Chemical Name)/ REACH Registration No. Concentration EC No./ EC Index No. GHS Classification 37738-64-2 17(R)-Resolvin D1 methyl ester 0.01 % NA No data available, NA 64.17-5 Ethyl alcohol 01-2119457610-43 99.99 % 200-578-6 603-002-00-5 Flam. Liq. 2: H225 64.17-5 Ethyl alcohol 01-2119457610-43 Section 4. First Aid Measures Flam. Liq. 2: H225 In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained perso Get immediate medical attention. In Case of Skin Contact: Immediate medical attention. In Case of Skin Contact: Immediately wash skin with scap and plenty of water for at least 15 minutes. Remove contac clothing. Get medical attention if symptoms occur. Wash clothing before reuse. In Case of Lipe Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes exe and tested by medical personnel. In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to a unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do s medical personnel. 4.2 Important Symptoms and May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitud Effects, Both Acute and (weakness, exhaustion), liver damage, narcosis, reproductive effects	EC Index No. 0.01 % NA No data available. 99.99 % 200-578-6 Flam. Liq. 2: H225 rest Aid Measures Fram. Liq. 2: H225 rest Aid Measures rest adult of water for at least 15 minutes. Remove contaminate n if symptoms occur. Wash clothing before reuse. reves with plenty of water for at least 15 minutes. Have eyes examined inel. rovided person is conscious. Never give anything by mouth to an dical attention. Do NOT induce vomiting unless directed to do so by NS depression, drowsiness, headache, heart damage, lassitude damage, narcosis, reproductive effects, teratogenic effects. Fighting Measures ration dioxide, water, or dry chemical spray. reposed containers. inefficient. revioed fire conditions. conditions. e of ignition and flash back. pseed Cup UEL: 19.0% at 25.0 C ained breathing apparatus pressure-demand (NIOSH approved or e gear to prevent contact with skin and eyes.		560	tion 3. Composition	mormation		niis
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Section 5. Fire Fighting Measures 5.1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. Unsuitable Extinguishing Media: 5.2 Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flashpoint. Hazards: 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. No data available. Flash Pt: 14.00 C Method Used: Closed Cup Explosive Limits: LEL: 3.3% at 25.0 C Jutoignition Pt: 363.00 C 5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved	earbon dioxide, water, or dry chemical spray. exposed containers. inefficient. explosive mixtures at temperatures at or above the flashpoint. eur under fire conditions. conditions. e of ignition and flash back. bsed Cup UEL: 19.0% at 25.0 C ained breathing apparatus pressure-demand (NIOSH approved or e gear to prevent contact with skin and eyes.	•					
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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 Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved	UEL: 19.0% at 25.0 C ained breathing apparatus pressure-demand (NIOSH approved or e gear to prevent contact with skin and eyes.			-	e or ignition and has	ST Dack.	
Explosive Limits:LEL: 3.3%at 25.0 CUEL: 19.0%at 25.0 CAutoignition Pt:363.00 C5.3Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved)	UEL: 19.0% at 25.0 C ained breathing apparatus pressure-demand (NIOSH approved or e gear to prevent contact with skin and eyes.	Fla	ah Dti				
Autoignition Pt: 363.00 C 5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved)	ained breathing apparatus pressure-demand (NIOSH approved or e gear to prevent contact with skin and eyes.					(at 25.0.C	
5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved	e gear to prevent contact with skin and eyes.	-			0EL. 19.07	o al 25.0 C	
•••	e gear to prevent contact with skin and eyes.		-				
Note: Flammable as diluted in ethanol.		5.3 Fire	e Fighting Instructions	equivalent), and full protectiv	e gear to prevent c	-	



	HEMICAL			Supers	edes Revision: 07/03/2014			
		Section 6. Ad	ccidenta	Release Measures				
6.1	Protective Precautions,	Avoid breathing var	pors and prov	vide adequate ventilation.				
	Protective Equipment and	As conditions warra	ant, wear a N	IOSH approved self-contained breathing	g apparatus, or respirato			
	Emergency Procedures:	and appropriate per	rsonal protec	tion (rubber boots, safety goggles, and I	neavy rubber gloves).			
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.						
	Precautions:							
6.3	Methods and Material For	Contain spill and co	ollect, as app	ropriate.				
	Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.							
	Up:							
		Section 7	7. Handl	ing and Storage				
7.1	Precautions To Be Taken	Avoid breathing dus	st/fume/gas/m	ist/vapours/spray.				
	in Handling:	Avoid prolonged or	repeated exp	osure.				
		Keep away from sou	urces of igniti	on.				
		Take precautionary	measures ag	ainst static discharge.				
7.2	Precautions To Be Taken	Keep away from hea	at, sparks, ar	d flame.				
	in Storing:	Keep container tight	tly closed.					
		Store in accordance	e with informa	tion listed on the product insert.				
	Other Precautions:	Hygroscopic						
	Sect	ion 8. Expos	ure Cont	rols/Personal Protection				
8.1	Exposure Parameters:							
CAS #	# Chemical Name	Jurisdiction	ו	Recommended Exposure Limits	Notations			
64-17	-5 Ethyl alcohol	ACGIH TLV		TLV: 1000 ppm				
1		France VL		TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)				
		OSHA PELs	;	PEL: 1000 ppm				
		Britain EH40)	TWA: 1920 mg/m3 (1000 ppm) STEL: ()				
8.2	Exposure Controls:	I			I			
8.2.1	Engineering Controls	Use process enclos	ures, local ex	haust ventilation, or other engineering of	controls to control airborn			
	(Ventilation etc.):	levels below recomr	mended expo	sure limits.				
8.2.2	Personal protection equi	oment:						
	Eye Protection:	Safety glasses						
	Protective Gloves:	Compatible chemica	al-resistant gl	oves				
	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 showed							
		Wash thoroughly after handling.						
		No data available.						



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	Section 9. Physical and Chemical Properties
9.1 Information on Basic P	Physical and Chemical Properties
Physical States:	[]Gas [X]Liquid []Solid
Appearance and Odor:	: A solution in ethanol
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, ga	as): No data available.
Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C
Vapor Pressure (vs. Ai	ir or mm 43 MM_HG at 20.0 C
Hg):	
Vapor Density (vs. Air	= 1): No data.
Specific Gravity (Wate	r = 1): No data.
Solubility in Water:	No data.
Octanol/Water Partition	n No data.
Coefficient:	
Autoignition Pt:	363.00 C
Decomposition Tempe	erature: No data.
Viscosity:	No data.
9.2 Other Information	
Percent Volatile:	No data.
Molecular Formula & V	Neight: C23H34O5 390.5
	Section 10. Stability and Reactivity
10.1 Reactivity:	No data available.
10.2 Stability:	Unstable [] Stable [X]
	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 - Mater	
To Avoid:	ammonia
	peroxides strong oxidizing agents
0.6 Hazardous	
	carbon dioxide carbon monoxide
Decomposition or	Carbon monoxide
Byproducts:	

Multi-region format



Multi-region format

	http://www.					upersedes Revis		
			Section 11. Toxicologica	I Informa	tion			
1.1	Informat	ion on	The toxicological effects of this product h	The toxicological effects of this product have not been thoroughly studied.				
	Toxicolo	gical Effects:	Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg;	Oral TDLO (n	nan): 650 mg/k	g; Oral LD50	
			(rat): 7,060 mg/kg; Oral LD50 (mouse): 3	,450 mg/kg; C	Dral LD50 (mc	ouse): 10.5 ml/	kg; Oral LD50	
			(rabbit): 6,300 mg/kg; Inhalation LC50 (ra			-	-	
			ppm (30m); Inhalation TCLO (human): 2,	•	20m); Inhalatio	on LC50 (rat):	5,900 mg/m3	
			(6h); Inhalation LCLO (mouse): 29,300 p		ilde Oleina (nable	:::), 00 mm m (0.4)	-) ve e de vete :	
	<u>.</u>		Ethanol - Irritation Data: Eyes (rabbit): 50	• • •		, . .		
	Effects:	Toxicological	Ethanol - Investigated as a drug, mutage and tumorigen.	n, natural pro	duct, primary	irritant, reprod	uctive effector	
	Effects:		Only select Registry of Toxic Effects of C	hemical Subs	tances (RTE	CS) data is pre	sented here.	
			See actual entry in RTECS for complete					
			Ethanol RTECS Number: KQ6300000					
Carcir	nogenicity	:	NTP? No IARC Monographs? No	OSHA Re	gulated? No			
CAS #	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
93773	38-64-2	17(R)-Resolvin D	1 methyl ester	n.a.	n.a.	n.a.	n.a.	
64	-17-5	Ethyl alcohol		n.a.	1	A4	n.a.	
			Section 12. Ecological	Informati	on			
12.1 Toxicity:								
12.1	i onicity.		Avoid release into the environment.					
12.1	i onicity.		Avoid release into the environment. Runoff from fire control or dilution water	may cause po	llution.			
	Persister			may cause po	llution.			
12.1	-	nce and	Runoff from fire control or dilution water	may cause po	llution.			
12.2	Persister	nce and bility:	Runoff from fire control or dilution water	nay cause po	llution.			
12.2	Persister Degrada	nce and bility: mulative	Runoff from fire control or dilution water No data available.	nay cause po	llution.			
	Persister Degrada Bioaccur	nce and bility: mulative I:	Runoff from fire control or dilution water No data available.	nay cause po	llution.			
12.2 12.3	Persister Degrada Bioaccur Potentia Mobility	nce and bility: mulative I: in Soil:	Runoff from fire control or dilution water No data available. No data available.	nay cause po	llution.			
12.2 12.3 12.4	Persister Degrada Bioaccur Potentia Mobility	nce and bility: mulative I: in Soil: of PBT and vPvB	Runoff from fire control or dilution water No data available. No data available. No data available.	nay cause po	llution.			
12.2 12.3 12.4 12.5	Persister Degrada Bioaccur Potential Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB	Runoff from fire control or dilution water No data available. No data available. No data available.	nay cause po	llution.			
12.2 12.3 12.4 12.5	Persister Degrada Bioaccur Potential Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB eent:	Runoff from fire control or dilution water No data available. No data available. No data available. No data available.					
12.2 12.3 12.4 12.5 12.6	Persister Degrada Bioaccur Potential Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available.	nsiderati	ons			
12.2 12.3 12.4 12.5 12.6	Persister Degrada Bioaccur Potential Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co	nsideration	O NS gulations.			
12.2 12.3 12.4 12.5 12.6	Persister Degrada Bioaccur Potential Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport	nsideration	O NS gulations.			
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Persister Degrada Bioaccur Potential Mobility Results of assessm Other ad Waste Di	nce and bility: mulative l: in Soil: of PBT and vPvB nent: verse effects: isposal Method:	Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport	nsideration	O NS gulations.			
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Persister Degrada Bioaccur Potential Mobility Results of assessm Other ad Waste Di	nce and bility: mulative l: in Soil: of PBT and vPvB eent: verse effects: isposal Method: RANSPORT (US I r Shipping Name:	Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport	nsideration and federal re Informati	O NS gulations.			
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Persister Degrada Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND T	nce and bility: mulative I: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Runoff from fire control or dilution water No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport Dottion: 3 FLAMMABLE LIQU	nsideration and federal re Informati	ONS gulations. ON	11		
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Persister Degrada Bioaccur Potential Mobility Results of assessm Other ad Waste Di LAND TI OT Proper OT Hazard	nce and bility: mulative I: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Runoff from fire control or dilution water No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport Dottion: 3 FLAMMABLE LIQU	nsideration and federal re Information D	ONS gulations. ON	11		
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(U)	Persister Degrada Bioaccur Potential Mobility Results assessm Other ad Waste Di LAND TI OT Proper OT Hazaro N/NA Num	nce and bility: mulative l: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber:	Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport DOT): Ethyl Alcohol Solution 3 FLAMMABLE LIQU UN1170 P	nsideration and federal re Information D	ONS gulations. ON	I		
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(U)	Persister Degrada Bioaccur Potential Mobility Results assessm Other ad Waste Di LAND TI OT Proper OT Hazaro N/NA Num	nce and bility: mulative l: in Soil: of PBT and vPvB nent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport DOT): Ethyl Alcohol Solution 3 FLAMMABLE LIQU UN1170 P	nsideration and federal re Information D	ONS gulations. ON	Ι		
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(U)	Persister Degrada Bioaccur Potential Mobility Results assessm Other ad Waste Di LAND TI OT Proper OT Hazaro N/NA Num	nce and bility: mulative l: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber:	Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport Dispose in accordance state and a state a	nsideration and federal re Information D acking Group	ONS gulations. ON			
12.2 12.3 12.4 12.5 12.6 13.1 14.1 Di Ul 14.1 Al Ul	Persister Degrada Bioaccur Potential Mobility Results assessm Other ad Waste Di LAND TI OT Proper OT Hazaro N/NA Num	nce and bility: mulative l: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber:	Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport Dispose in accordance state and a state a	nsideration and federal re Information D	ONS gulations. ON			



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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 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

		Section 15. Regu	atory mionin	allon	
EPA SARA (S	uperfund Amend	ments and Reauthorization Act	of 1986) Lists		
CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
937738-64-2	17(R)-Resolvin I	D1 methyl ester	No	No	No
64-17-5	Ethyl alcohol		No	No	No
CAS #	Hazardous Cor	nponents (Chemical Name)	Other US EPA o	r State Lists	·
937738-64-2	17(R)-Resolvin I	D1 methyl ester	methyl ester CAA HAP,ODC: No; CWA NPDES: No; T PROP.65: No		: No; TSCA: No; CA
64-17-5	Ethyl alcohol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
Regulatory Inf	ormation	This SDS was prepared in acco	rdance with 29 CFF	R 1910.1200 and R	egulation (EC)
Statement:		No.1272/2008.			
		Section 16. Ot	her Informatio	on	
Revision Date:		07/14/2019			
Additional Info This Product:	ormation About	No data available.			
Company Policy or Disclaimer:		currently available to us. Howe express or implied, with respec use. Users should make their of their particular purposes.	t to such informatior	n, and we assume r	no liability resulting from its