

Revision: 11/11/2019 Supersedes Revision: 05/15/2013

			ng to Regulation (EC) No. 1907/2006 as a	-							
		Section 1.	Identification of the Substar	nce/Mixture and of	the Company/U	ndertaking					
.1	Product Cod	de:	700641								
	Product Nar	ne:	Lipase Substrate								
.2	Relevant ide	entified uses o	f the substance or mixture a	and uses advised a	against:						
	Relevant i	dentified uses	: For research use only, no	ot for human or vete	erinary use.						
.3	Details of th	e Supplier of t	he Safety Data Sheet:								
	Company	Name:	Cayman Chemical Comp	pany							
			1180 E. Ellsworth Rd. Ann Arbor, MI 48108								
	Web site a	ddress:	www.caymanchem.com								
	Informatio		Cayman Chemical Comp	bany	+1 (73	4)971-3335					
.4	Emergency	telephone nur			, ,	,					
		y Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300					
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887					
			Section 2. Ha	zards Identifi	cation						
.1	Classificatio	on of the Subs	tance or Mixture:								
	Flammabl	e Liquids, Cat	egory 2								
	Label Eleme	ents:									
.2											
2.2											
2.2		•									
2.2		F									
.2	GHS Signa	al Word:	Danger								
.2	GHS Signa GHS Haza	al Word: ard Phrases:	Danger								
.2	GHS Haza	rd Phrases:	Danger quid and vapor.								
2	GHS Haza H225: High	rd Phrases:	quid and vapor.								
2.2	GHS Haza H225: High GHS Prec	ird Phrases: hly flammable li autionary Phra	quid and vapor.	rfaces} No smoki	ng.						
2	GHS Haza H225: High GHS Preca P210: Kee	Ird Phrases: hly flammable li autionary Phra p away from {h	quid and vapor. ases:	-	-						
.2	GHS Haza H225: High GHS Preca P210: Kee P280: Wea GHS Resp	ard Phrases: hly flammable li autionary Phra p away from {h ar {protective gl ponse Phrases	quid and vapor. ases: eat/sparks/open flames/hot su oves/protective clothing/eye pr	rotection/face prote	ction}.						
.2	GHS Haza H225: High GHS Prec P210: Kee P280: Wea GHS Resp P303+361	ard Phrases: hly flammable li autionary Phra p away from {h ar {protective gl ponse Phrases +353: IF ON Sh	quid and vapor. ases: eat/sparks/open flames/hot su oves/protective clothing/eye p	rotection/face prote	ction}.	ı. Rinse skin with					
.2	GHS Haza H225: High GHS Preca P210: Kee P280: Wea GHS Resp P303+361- water/show	ard Phrases: hly flammable li autionary Phra p away from {h ar {protective gl ponse Phrases +353: IF ON Sk wer.	quid and vapor. ases: eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off	rotection/face prote	ction}.	ı. Rinse skin with					
.2	GHS Haza H225: High GHS Preca P210: Kee P280: Wea GHS Resp P303+361 water/show GHS Stora	ard Phrases: hly flammable li autionary Phra p away from {h ar {protective gl ponse Phrases +353: IF ON Sh wer. age and Dispo	quid and vapor. ases: eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off sal Phrases:	rotection/face prote	ction}.	ı. Rinse skin with					
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2.2	GHS Haza H225: High GHS Preca P210: Kee P280: Wea GHS Resp P303+361 water/show GHS Stora Please refe Adverse Hu	ard Phrases: hly flammable li autionary Phra p away from {h ar {protective gl bonse Phrases +353: IF ON Sh wer. age and Dispo er to Section 7 f uman Health Symptoms:	quid and vapor. ases: eat/sparks/open flames/hot su oves/protective clothing/eye pr : KIN (or hair): Remove/take off sal Phrases: for Storage and Section 13 for Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp	rotection/face prote immediately all con Disposal information he mucous membra i, ingestion, or skin iratory system irrita e, the toxicological p	ction}. taminated clothing on. anes and upper res absorption. tion. properties have not	spiratory tract. t been thoroughly investigat					
3	GHS Haza H225: High GHS Prec: P210: Kee P280: Wea GHS Resp P303+361 water/show GHS Stora Please refe Adverse Hu Effects and	ard Phrases: hly flammable li autionary Phra p away from {h ar {protective gl oonse Phrases +353: IF ON Sh ver. age and Dispo er to Section 7 f uman Health Symptoms:	quid and vapor. ases: eat/sparks/open flames/hot su oves/protective clothing/eye pr : KIN (or hair): Remove/take off sal Phrases: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge ion 3. Composition	rotection/face prote immediately all con Disposal information he mucous membra i, ingestion, or skin iratory system irritate a, the toxicological p /Information	ction}. taminated clothing on. anes and upper res absorption. tion. properties have not On Ingredie	spiratory tract. t been thoroughly investigat nts					
2.3 CAS	GHS Haza H225: High GHS Prec: P210: Kee P280: Wea GHS Resp P303+361 water/show GHS Stora Please refe Adverse Hu Effects and	ard Phrases: hly flammable li autionary Phra p away from {h ar {protective gl oonse Phrases +353: IF ON Sh ver. age and Dispo er to Section 7 f uman Health Symptoms:	quid and vapor. ases: eat/sparks/open flames/hot su oves/protective clothing/eye pr : KIN (or hair): Remove/take off sal Phrases: for Storage and Section 13 for Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge ion 3. Composition onents (Chemical Name)/	rotection/face prote immediately all con Disposal information he mucous membra i, ingestion, or skin iratory system irrita e, the toxicological p	ction}. taminated clothing on. anes and upper res absorption. tion. properties have not	spiratory tract. t been thoroughly investigat					
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2.3 CAS	GHS Haza H225: High GHS Prec P210: Kee P280: Wea GHS Resp P303+361 water/show GHS Stora Please refe Adverse Hu Effects and	ard Phrases: hly flammable li autionary Phra p away from {h ar {protective gl oonse Phrases +353: IF ON Sh wer. age and Dispo er to Section 7 f uman Health Symptoms: Sect zardous Comp ACH Registrat	quid and vapor. ases: eat/sparks/open flames/hot su oves/protective clothing/eye pr : KIN (or hair): Remove/take off sal Phrases: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge ion 3. Composition onents (Chemical Name)/ ion No.	rotection/face prote immediately all con Disposal information he mucous membra in ingestion, or skin iratory system irrita a, the toxicological p /Information	ction}. taminated clothing on. anes and upper res absorption. tion. oroperties have not ON Ingredie EC No./ EC Index No.	spiratory tract. t been thoroughly investigat NtS GHS Classification					
2.3 CAS RTE 1309 NA 64	GHS Haza H225: High GHS Prec: P210: Kee P280: Wea GHS Resp P303+361 water/show GHS Stora Please refe Adverse Hu Effects and	ard Phrases: hly flammable li autionary Phra p away from {h ar {protective gl oonse Phrases +353: IF ON Sh wer. age and Dispo er to Section 7 f uman Health Symptoms: Sect zardous Comp ACH Registrat	quid and vapor. ases: eat/sparks/open flames/hot su oves/protective clothing/eye pr : KIN (or hair): Remove/take off sal Phrases: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge ion 3. Composition onents (Chemical Name)/ ion No. Glycerol	rotection/face prote immediately all con Disposal information he mucous membra in ingestion, or skin iratory system irrita a, the toxicological p /Information	ction}. taminated clothing on. anes and upper res absorption. tion. oroperties have not ON INGREDIE EC No./ EC Index No.	spiratory tract. t been thoroughly investigat NtS GHS Classification					

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In Case of Eye Contact: In Case of Ingestion: Important Symptoms and Effects, Both Acute and Delayed:	Section 4. First Aid Measures Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse. Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel. 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. May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. Bection 5. Fire Fighting Measures					
Measures: In Case of Inhalation: In Case of Skin Contact: In Case of Eye Contact: In Case of Ingestion: Important Symptoms and Effects, Both Acute and Delayed:	Get immediate medical attention. Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse. Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel. 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. May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.					
In Case of Inhalation: In Case of Skin Contact: In Case of Eye Contact: In Case of Ingestion: Important Symptoms and Effects, Both Acute and Delayed:	Get immediate medical attention. Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse. Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel. 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. May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.					
In Case of Skin Contact: In Case of Eye Contact: In Case of Ingestion: Important Symptoms and Effects, Both Acute and Delayed:	Get immediate medical attention. Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse. Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel. 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. May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.					
In Case of Eye Contact: In Case of Ingestion: Important Symptoms and Effects, Both Acute and Delayed:	 clothing. Get medical attention if symptoms occur. Wash clothing before reuse. Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel. 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. May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. 					
In Case of Ingestion: Important Symptoms and Effects, Both Acute and Delayed:	and tested by medical personnel. 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. May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.					
Important Symptoms and Effects, Both Acute and Delayed:	unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel. I May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.					
Effects, Both Acute and Delayed:	(weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.					
	Section 5. Fire Fighting Measures					
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:	A solid water stream may be inefficient.					
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					
Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C					
Autoignition Pt:	363.00 C					
Fire Fighting Instructions	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					
Protective Precautions, Protective Equipment and	Avoid breathing vapors and provide adequate ventilation. 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).					
Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.					
	r Contain spill and collect, as appropriate. \mathbf{g} Transfer to a chemical waste container for disposal in accordance with local regulations.					
	Media: Flammable Properties an Hazards: Flash Pt: Explosive Limits: Autoignition Pt: Fire Fighting Instructions Protective Precautions, Protective Equipment and Emergency Procedures: Environmental Precautions: Methods and Material For Containment and Cleanin					

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		Section 7. H	andling and Storage	
7.1	Precautions To Be Taken	Avoid breathing dust/fume	/gas/mist/vapours/spray.	
	in Handling:	Avoid prolonged or repeat	ed exposure.	
		Keep away from sources of	of ignition.	
		Take precautionary measu	ures against static discharge.	
7.2	Precautions To Be Taken	Keep away from heat, spa	irks, and flame.	
	in Storing:	Keep container tightly clos	sed.	
	:	Store in accordance with i	nformation listed on the product insert.	
	Other Precautions:	Hygroscopic		
	Secti	on 8. Exposure	Controls/Personal Protection	
8.1	Exposure Parameters:			
CAS	# Chemical Name	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	PEL: 1000 ppm	
		Britain EH40	TWA: 1920 mg/m3 (1000 ppm) STEL: ()	
8.2	Exposure Controls:			
3.2.1	Engineering Controls	l lse process enclosures l	ocal exhaust ventilation, or other engineering cont	rols to control airbo
		levels below recommende		
8.2.2	Personal protection equip			
0.2.2				
	-	Safety glasses		
		Compatible chemical-resis	stant gloves	
	Other Protective Clothing:			
		NIOSH approved respirate	or, as conditions warrant.	
	(Specify Type):			
	Work/Hygienic/Maintenan	-		
			g this material should be equipped with an eyewas	sh and a safety sho
		Wash thoroughly after har	iaing.	
		No data available.		
	Se	ction 9. Physica	I and Chemical Properties	
9.1	Information on Basic Physi	-		
	Physical States:	[]Gas [X]L		
	Appearance and Odor:	A solution in ethan	ol	
	pH:	No data.		
	Melting Point:	No data.		
	Boiling Point:	No data.		
	Flash Pt:		Used: Closed Cup	
	Evaporation Rate:	No data.		
	Flammability (solid, gas):	No data available.		
	Explosive Limits:		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.		
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ay	nan								:	Supersedes Revis	sion: 11/11/20 sion: 05/15/20
	Specific	Gravity (Water :	= 1):	No data	a.					,	
	Solubilit	y in Water:	-	No data	a.						
	Octanol/	Water Partition		No data	a.						
	Coefficie	ent:									
	Autoigni	ition Pt:		363.00	С						
	Decomp	osition Tempera	ature:	No data	a.						
	Viscosit	у:		No data	a.						
.2	Other Inf	ormation									
	Percent	Volatile:		No data	a.						
			S	Sectio	n 10.	Stabi	lity and	d Reacti	vity		
0.1	Reactivi	ty:	No da	ta availa	ble.						
0.2	Stability	:	Unstal	ble[]	Stab	le [X]					
0.3	Stability	Note(s):	Stable	e if stored	d in accc	ordance	with inform	ation listed	on the produc	ct insert.	
	Polymer	ization:	Will oc	ccur []	Will	not occu	ur [X]				
0.4	Conditio	ons To Avoid:	heat, f	lames, a	and spar	'ks					
0.5	Incompa	atibility - Materia	ls alkali ı	metals							
	To Avoid: ammonia										
	peroxides										
			strong	oxidizin	g agents	S					
0.6	Hazardous carbon die										
	Decomposition or carbon monoxide										
	Byprodu	icts:									
			Se	ection	11. T	oxico	ologica	Inform	ation		
1.1	Informat	tion on		he toxicological effects of this product have not been thoroughly studied.							
	J			thanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50 at): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50							
			•				•		• • •	alation TCLO (ł tion LC50 (rat):	
				-		-	-	-	(2011), 1111aia		5,900 mg/m
				6h); Inhalation LCLO (mouse): 29,300 ppm (7h); thanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;							
						-		• · ·		y irritant, reprod	-
	Effects:	· · · · · · · · · · · · · · · · · · ·		morigen	-		9,	.,	, [,,	
				•		f Toxic E	ffects of C	hemical Sub	ostances (RTE	ECS) data is pre	esented here
			See a	ctual ent	ry in RT	ECS for	complete i	information.			
			Ethan	ol RTEC	S Numb	ber: KQ6	300000				
Carcin	ogenicity	/:	NTP?	No	IARC M	lonograp	ohs? No	OSHA R	egulated? No		
CAS # Hazardous Com		nponents (Chemical Name)			NTP	IARC	ACGIH	OSHA			
13096	64-54-7	Arachidonoyl-1-	thio-Glyc	erol				n.a.	n.a.	n.a.	n.a.
	47 F	-5 Ethyl alcohol						n.a.	1	A4	n.a.



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			Section 12. Ecolo	gical Informat	ion			
12.1 Toxicity:			Avoid release into the environment.					
			Runoff from fire control or dilution	on water may cause p	ollution.			
12.2	Persiste	nce and	No data available.					
	Degrada	ıbility:						
12.3	Bioaccu	mulative	No data available.					
	Potentia	d:						
12.4	Mobility	in Soil:	No data available.					
12.5	Results	of PBT and vPvB	No data available.					
	assessn	nent:						
12.6	Other ac	lverse effects:	No data available.					
			Section 13. Dispos	al Considerat	ions			
13.1	Waste D	isposal Method:	Dispose in accordance with loca	al, state, and federal re	egulations.			
			Section 14. Trans	sport Informat	ion			
14.1	LAND T	RANSPORT (US D	ЮТ):					
DC	OT Prope	r Shipping Name:	Ethyl Alcohol Solution					
D	OT Hazaro	d Class:	3 FLAMMAB	LE LIQUID				
	N/NA Num	nber:	UN1170	Packing Grou	p:	II		
UN Ha 14.3	DR/RID SI N Number azard Clas AIR TRA		Ethyl Alcohol Solution 1170 3 - FLAMMABLE LIQUID	Packing Grou	p:	II		
UN	UN Number:		1170	Packing Group:		II		
Ha	Hazard Class:		3 - FLAMMABLE LIQUID	IATA Classifie	cation:	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							
EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists								
CAS #	-	1	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
13096	64-54-7	Arachidonoyl-1-th	io-Glycerol	No	No	No		
64	-17-5	Ethyl alcohol		No	No	No		
CAS #	ŧ	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists			
13096	64-54-7	Arachidonoyl-1-th		CAA HAP,ODC: No PROP.65: No	o; CWA NPDES: No	; TSCA: No; CA		
64	-17-5	Ethyl alcohol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -				
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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:	11/11/2019					
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.					