

	Section 1 Io	lentification of the Substance/Mixture and of th	e Company/Undertaking
4			o company, on containing
.1	Product Code: Product Name:	24830	
	Synonyms:	LAL Activity MaxSpec® Assay Substrate P-PHMC;	
.2		the substance or mixture and uses advised aga	
	Relevant identified uses:	For research use only, not for human or vetering	hary use.
1.3	Details of the Supplier of th	e Safety Data Sheet:	
	Company Name:	Cayman Chemical Company	
		1180 E. Ellsworth Rd.	
	Web site address:	Ann Arbor, MI 48108 www.caymanchem.com	
	Information:	Cayman Chemical Company	+1 (734)971-3335
			+1 (734)971-3335
1.4	Emergency telephone num		1 (800) 404 0000
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887
		Section 2. Hazards Identifica	ation
2.1	Classification of the Substa	ince or Mixture:	
	Flammable Liquids, Categ	gory 2	
	Serious Eye Damage/Eye	Irritation, Category 2	
	Specific Target Organ Ta		
	Specific rarger organ to	xicity (single exposure), Category 3	
2.2	Label Elements:	xicity (single exposure), Category 3	
2.2			
2.2	Label Elements:	xicity (single exposure), Category 3 Danger	
2.2	Label Elements:		
2.2	Label Elements:	Danger ire may cause skin dryness or cracking.	
2.2	Label Elements:	Danger Ire may cause skin dryness or cracking. uid and vapor.	
2.2	Label Elements:	Danger Ire may cause skin dryness or cracking. uid and vapor. irritation.	
2.2	Label Elements:	Danger Ire may cause skin dryness or cracking. uid and vapor. irritation. iss or dizziness.	
2.2	Label Elements:	Danger Ire may cause skin dryness or cracking. uid and vapor. irritation. iss or dizziness.	
2.2	Label Elements:	Danger The may cause skin dryness or cracking. uid and vapor. The irritation. The ses or dizziness.	
2.2	Label Elements:	Danger Ire may cause skin dryness or cracking. uid and vapor. irritation. iss or dizziness. ses: at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}.	
2.2	Label Elements:	Danger Ire may cause skin dryness or cracking. uid and vapor. irritation. iss or dizziness. ses: at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}.	
2.2	Label Elements:	Danger ure may cause skin dryness or cracking. uid and vapor. irritation. ss or dizziness. ses: at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}. ughly after handling.	
2.2	Label Elements:	Danger ure may cause skin dryness or cracking. uid and vapor. irritation. ss or dizziness. ses: at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}. ughly after handling.	on}.
2.2	Label Elements:	Danger Ire may cause skin dryness or cracking. uid and vapor. irritation. iss or dizziness. Ses: at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection N (or hair): Remove/take off immediately all contar	on}. ninated clothing. Rinse skin with
2.2	Label Elements:	Danger ure may cause skin dryness or cracking. uid and vapor. irritation. iss or dizziness. ses: at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection N (or hair): Remove/take off immediately all contar emove victim to fresh air and keep at rest in a posi	on}. ninated clothing. Rinse skin with tion comfortable for breathing.
2	Label Elements:	Danger Ire may cause skin dryness or cracking. uid and vapor. irritation. iss or dizziness. Ses: at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection N (or hair): Remove/take off immediately all contar	on}. ninated clothing. Rinse skin with tion comfortable for breathing.
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SAFETY DATA SHEET

Cay	man		LAL Activity M	axSpec® Assa	ay Substrate	Revision: 08/04/2019		
2.3	Adverse H	uman Health	Causes serious eye irritation					
	Effects and Symptoms:		Material may be irritating to t	he mucous membrar	nes and upper res	piratory tract.		
			May be harmful by inhalation, ingestion, or skin absorption.					
			May cause drowsiness or diz	ziness.				
			May cause skin or respirator	y system irritation.				
			Repeated exposure may cau	se skin dryness or c	racking.			
			To the best of our knowledge	e, the toxicological pr	operties have not	been thoroughly investigated.		
		Sect	ion 3. Composition	/Information of	on Ingredie	nts		
		-	ardous Components (Chemical Name)/ ACH Registration No.		EC No./ EC Index No.	GHS Classification		
NA NA	LA	L Activity MaxSpe	c® Assay Substrate	0.1 %	NA NA	No data available.		
-79 Al910		lethyl acetate 1-2119459211-47		99.9 %	201-185-2 607-021-00-X	Flam. Liq. 2: H225 Eye Damage 2: H319		
						STOT (SE) 3: H335 H336 EUH066		
			Section 4. Fi	rst Aid Measu	ires			
4.1	Description Measures:	n of First Aid						
	In Case of	Inhalation:	Remove to fresh air. If not bre	eathing, give artificia	l respiration or giv	ve oxygen by trained personnel.		
			Get immediate medical attent	tion.				
	In Case of	Skin Contact:	Immediately wash skin with s clothing. Get medical attentio			minutes. Remove contaminated efore reuse.		
	In Case of	Eye Contact:	Hold eyelids apart and flush e and tested by medical person		ater for at least 1	5 minutes. Have eyes examined		

Wash out mouth with water provided person is conscious. Never give anything by mouth to an In Case of Ingestion: unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2 Important Symptoms and Exposure may cause: coughing, dizziness, drowsiness, headache, narcosis, optic nerve atrophy, Effects, Both Acute and chest tightness.

Delayed:

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	g A solid water stream may be inefficient.				
	Media:					
5.2	Flammable Properties and Can release vapors that form explosive mixtures at temperatures at or above the flash point.					
	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:	-10.00 C Method Used: Closed Cup				
	Explosive Limits:	LEL: 3.1% at 25.0 C UEL: 16.0% at 25.0 C				
	Autoignition Pt:	455.00 C				

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or



		Note: Flammable as dilute	ective gear to prevent contact with skin and eyes. red in methyl acetate.				
		Section 6. Accid	lental Release Measures				
5.1 5.2	Protective Precautions, Protective Equipment an Emergency Procedures: Environmental	nd As conditions warrant, we and appropriate personal	and provide adequate ventilation. year a NIOSH approved self-contained breathing a al protection (rubber boots, safety goggles, and he ase into the environment, if safe to do so.				
6.3		Methods and Material For Contain spill and collect, as appropriate. Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.					
		Section 7. H	landling and Storage				
7.1	Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure. Keep away from sources of ignition.						
7.2 Precautions To Be Taken Keep away from heat, sparks, and flame. in Storing: Keep container tightly closed. Store in accordance with information listed on the product insert.							
Other Precautions: Protect from moisture.							
	Sec	ction 8. Exposure	Controls/Personal Protection				
8.1	Exposure Parameters:						
CAS #	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations			
79-20	-9 Methyl acetate	ACGIH TLV	TLV: 200 ppm STEL: 250 ppm				
		France VL	TWA: 610 mg/m3 (200 ppm) STEL: 760 mg/m3 (250 ppm)				
		OSHA PELs	PEL: 200 ppm				
		Britain EH40	TWA: 616 mg/m3 (200 ppm) STEL: 770 mg/m3 (250 ppm)				
3.2	Exposure Controls:						
3.2.1	Engineering Controls (Ventilation etc.):	Use process enclosures, levels below recommende	local exhaust ventilation, or other engineering cor ed exposure limits.	ntrols to control airborn			
3.2.2	Personal protection equ	ipment:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resi	istant gloves				
	Other Protective Clothin	g:Lab coat					
	Respiratory Equipment	NIOSH approved respirat	tor, as conditions warrant.				
	(Specify Type):						
	(Specify Type): Work/Hygienic/Maintena	n Do not take internally.					
	(Specify Type): Work/Hygienic/Maintena ce Practices:		ng this material should be equipped with an eyewa andling.	ash and a safety show			
	Work/Hygienic/Maintena	Facilities storing or utilizin		ash and a safety show			
	Work/Hygienic/Maintena	Facilities storing or utilizir Wash thoroughly after ha		ash and a safety :			



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	Se	ection 9. Physical and Chemical Properties
9.1	Information on Basic Physi	ical and Chemical Properties
	Physical States:	[] Gas [X] Liquid [] Solid
	Appearance and Odor:	A solution in methyl acetate
	pH:	No data.
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	-10.00 C Method Used: Closed Cup
	Evaporation Rate:	No data.
	Flammability (solid, gas):	No data available.
	Explosive Limits:	LEL: 3.1% at 25.0 C UEL: 16.0% at 25.0 C
	Vapor Pressure (vs. Air or Hg):	mm 173 MM_HG at 20.0 C
	Vapor Density (vs. Air = 1)	: No data.
	Specific Gravity (Water = 1	1): No data.
	Solubility in Water:	No data.
	Octanol/Water Partition Coefficient:	No data.
	Autoignition Pt:	455.00 C
	Decomposition Temperatu	
	Viscosity:	No data.
9.2	Other Information	
0.2	Percent Volatile:	No data.
	Molecular Formula & Weig	
		Section 10. Stability and Reactivity
10.1		No data available.
10.2	-	Unstable [] Stable [X]
10.3	• • • •	Stable if stored in accordance with information listed on the product insert.
	-	Will occur [] Will not occur [X]
10.4		heat, flames, and sparks
10.5	Incompatibility - Materials	
		alkalis
		nitrates
		strong oxidizing agents
		carbon dioxide carbon monoxide
10.6		carbon monoxide
10.6	Decomposition or Byproducts:	



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n on The toxicological effects of this produ- ical Effects: Methyl Acetate - Toxicity Data: Oral I Skin LD50 (rabbit): >5,000 mg/kg; In Methyl Acetate - Irritation Data: Skin moderate; bxicological Methyl Acetate - Investigated as a m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methyl Acetate RTECS Number: AI9 NTP? No IARC Monographs? N Hazardous Components (Chemical Name) AL Activity MaxSpec® Assay Substrate Methyl acetate Methyl acetate Methyl acetate Methyl acetate Methyl acetate Methyl acetate No data available. Iity: ulative No data available.	LD50 (rat): >5,00 halation TCLO (h (rabbit): 500 mg utagen and prima of Chemical Sub lete information. 100000 No OSHA Re <u>NTP</u> n.a. n.a. al Informat	0 mg/kg; Oral numan): 15,000 (24h) mild; Eye ary irritant. stances (RTE0 egulated? No IARC n.a. n.a. n.a.	LD50 (rabbit):) mg/m3; es (rabbit): 100) mg (24h)
Skin LD50 (rabbit): >5,000 mg/kg; In Methyl Acetate - Irritation Data: Skin moderate; Dxicological Methyl Acetate - Investigated as a m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methyl Acetate RTECS Number: Al9 NTP? No IARC Monographs? N Hazardous Components (Chemical Name) AL Activity MaxSpec® Assay Substrate Methyl acetate Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa Re and No data available.	halation TCLO (h (rabbit): 500 mg of Chemical Sub lete information. 100000 No OSHA Re NTP n.a. n.a. al Informat	ary irritant. (24h) mild; Eya ary irritant. stances (RTEC egulated? No IARC n.a. n.a. ion) mg/m3; es (rabbit): 100 CS) data is pre ACGIH n.a.	o mg (24h) esented here.
Methyl Acetate - Irritation Data: Skin moderate; bxicological Methyl Acetate - Investigated as a m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methyl Acetate RTECS Number: Al9 NTP? No IARC Monographs? N lazardous Components (Chemical Name) AL Activity MaxSpec® Assay Substrate Methyl acetate <u>Section 12. Ecologic</u> Avoid release into the environment. Runoff from fire control or dilution wa te and No data available. lity:	(rabbit): 500 mg of Chemical Sub lete information. 100000 No OSHA Re NTP n.a. n.a. al Informat	(24h) mild; Eyr ary irritant. stances (RTEC egulated? No IARC n.a. n.a. ion	es (rabbit): 100 CS) data is pre ACGIH n.a.	OSHA n.a.
moderate; bxicological Methyl Acetate - Investigated as a m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methyl Acetate RTECS Number: AI9 NTP? No IARC Monographs? N Iazardous Components (Chemical Name) AL Activity MaxSpec® Assay Substrate Methyl acetate Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa the and No data available. Iity:	of Chemical Sub lete information. 100000 No OSHA Re NTP n.a. n.a. al Informat	ary irritant. stances (RTE) egulated? No IARC n.a. n.a. ion	CS) data is pre	OSHA n.a.
bxicological Methyl Acetate - Investigated as a m Only select Registry of Toxic Effects See actual entry in RTECS for comp Methyl Acetate RTECS Number: Al9 NTP? No Iazardous Components (Chemical Name) IARC Monographs? N AL Activity MaxSpec® Assay Substrate Methyl acetate Methyl acetate Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa se and No data available. lity: No data available.	of Chemical Sub lete information. 100000 No OSHA Re NTP n.a. n.a. al Informat	egulated? No IARC n.a. n.a.	ACGIH n.a.	OSHA n.a.
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Methyl Acetate RTECS Number: Al9 NTP? No IARC Monographs? N Hazardous Components (Chemical Name) AL Activity MaxSpec® Assay Substrate Methyl acetate Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa te and No data available. Iity:	NO OSHA Re NTP n.a. n.a.	IARC n.a. n.a.	n.a.	n.a.
NTP? No IARC Monographs? N Iazardous Components (Chemical Name) AL Activity MaxSpec® Assay Substrate Methyl acetate Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa te and No data available. Iity:	NO OSHA Re NTP n.a. n.a.	IARC n.a. n.a.	n.a.	n.a.
AL Activity MaxSpec® Assay Substrate Methyl acetate Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa are and No data available. Ity:	NTP n.a. n.a. al Informat	IARC n.a. n.a.	n.a.	n.a.
AL Activity MaxSpec® Assay Substrate Methyl acetate Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa e and No data available. lity:	n.a. n.a. al Informat	n.a. n.a.	n.a.	n.a.
Methyl acetate Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa te and No data available. lity:	n.a.	n.a.		
Section 12. Ecologic Avoid release into the environment. Runoff from fire control or dilution wa ce and No data available. lity:	al Informat	ion	n.a.	n.a.
Avoid release into the environment. Runoff from fire control or dilution wa e and No data available.				
Runoff from fire control or dilution was the and No data available. Iity:	ater may cause p	ollution.		
e and No data available.	ater may cause p	ollution.		
lity:				
ulative No data available				
Soil: No data available.				
PBT and vPvB No data available.				
nt:				
erse effects: No data available.				
	<u> </u>			
Section 13. Disposal	Considerat	ions		
posal Method: Dispose in accordance with local, sta	ate, and federal re	egulations.		
Section 14. Transpo	ort Informat	ion		
ANSPORT (US DOT):				
Shipping Name: Methyl Acetate Solution				
Class: 3 FLAMMABLE L	IQUID			
er: 1231	Packing Grou	p:	II	
	-	-		
3				
	Dealder - Or			
-	Packing Grou	h:	II	
3 - FLAMMABLE LIQUID				
	ASPORT (European ADR/RID): bing Name: Methyl Acetate Solution 1231 3 - FLAMMABLE LIQUID	ASPORT (European ADR/RID): bing Name: Methyl Acetate Solution 1231 Packing Grou	ASPORT (European ADR/RID): bing Name: Methyl Acetate Solution 1231 Packing Group:	ASPORT (European ADR/RID): bing Name: Methyl Acetate Solution 1231 Packing Group: II



14.3 AIR TRANSPORT (ICAO/IATA):							
ICAO/IATA Shipping Name:		Methyl Acetate Solution					
UN Number:		1231	Packing Grou	р:	II		
Hazard Clas	ss:	3 - FLAMMABLE LIQUID	IATA Classific	cation:	3		
Additional Tran	nsport	Transport in accordance with loc	al, state, and federal	regulations.			
Information:	-	When sold in quantities of less the	han or equal to 1 mL,	or 1 g, with an Exce	pted Quantity Code of		
		E1, E2, E4, or E5, this item mee	ts the De Minimis Qu	antities exemption, p	er IATA 2.6.10.		
		Therefore packaging does not he	ave to be labeled as	Dangerous Goods/E>	cepted Quantity.		
		Section 15. Regula	atory Informat	ion			
EPA SARA (Su	perfund Amendm	ents and Reauthorization Act o	f 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
NA	LAL Activity Maxs	Spec® Assay Substrate	No	No	No		
79-20-9	Methyl acetate		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
NA		Spec® Assay Substrate	CAA HAP,ODC: No PROP.65: No	; CWA NPDES: No;	TSCA: No; CA		
79-20-9	Methyl acetate			; CWA NPDES: No; ; CA PROP.65: No	TSCA: Yes -		
Regulatory Info Statement:	rmation	This SDS was prepared in accor No.1272/2008.	dance with 29 CFR 1	910.1200 and Regul	ation (EC)		
		Section 16. Other Information					
Revision Date:		08/04/2019					
Additional Infor	mation About	No data available.					
This Product:							
Company Policy or Disclaimer:		DISCLAIMER: This information is currently available to us. However express or implied, with respect use. Users should make their ow their particular purposes.	er, we make no warra to such information, a	inty of merchantability and we assume no lia	y or any other warranty, bility resulting from its		



KQ6300000

01-2119457610-43-0000

SAFETY DATA SHEET LAL Activity MaxSpec® Assay Product

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		according to	Regulation (EC) No. 1907/2006 as a	mended by (EC) No. 2015/8	30 and US OSHA HCS	2015		
		Section 1. Ide	entification of the Substar	nce/Mixture and of t	he Company/Ur	ndertaking		
1.1	Product Product Synony	Name:	24831 LAL Activity MaxSpec® / 7-hydroxy-8-methyl-4-pro	-	n-2-one; PMHC;			
1.2			ne substance or mixture a					
	Releva	ant identified uses:	For research use only, ne	ot for human or veteri	inary use.			
1.3		of the Supplier of the any Name:	Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany				
	Web s	ite address:	www.caymanchem.com					
	Inform	nation:	Cayman Chemical Comp	pany	+1 (734	4)971-3335		
1.4	Emerge	ency telephone numb	er:					
	Emerg	gency Contact:	CHEMTREC Within USA CHEMTREC Outside US		•	0)424-9300 3)527-3887		
			Section 2. Ha		,	-,		
2.1	Classifi	cation of the Substar	ce or Mixture:					
	Flamr	nable Liquids, Catego	ory 2					
2.2	Label E	lements:	-					
	GHS S	Bignal Word:	Danger					
	GHS I	Hazard Phrases:						
		Highly flammable liqui	-					
		Precautionary Phrase						
	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking.							
			es/protective clothing/eye p	rotection/face protect	ion}.			
	P303+	Response Phrases: -361+353: IF ON SKIN ′shower.	(or hair): Remove/take off	immediately all conta	aminated clothing	. Rinse skin with		
	GHS S	Storage and Disposal	Phrases:					
			Storage and Section 13 for	-				
2.3		and Symptoms: M	laterial may be irritating to t lay be harmful by inhalation lay cause eye, skin, or resp	, ingestion, or skin at	osorption.	piratory tract.		
		Т	o the best of our knowledge	e, the toxicological pro	operties have not	been thoroughly investigated.		
		Sectio	n 3. Composition	/Information c	on Ingredie	nts		
CAS RTE	#/ CS #	Hazardous Compon REACH Registration	ents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification		
9518 NA	84-99-9	7-hydroxy-8-methyl-4-pi	opyl-2H-1-benzopyran-2-one	0.01 %	NA NA	Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Acute Tox.(I) 4: H332		
64	-17-5	Ethyl alcohol		99.99 %	200-578-6	Flam. Liq. 2: H225		



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				603-002-00-5	
	·	Section 4. Fi	rst Aid Measu	res	
4.1	Description of First Aid				
	Measures:				
	In Case 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 so clothing. Get medical attention			minutes. Remove contaminated efore reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		ater for at least 15	5 minutes. Have eyes examined
	In Case of Ingestion:	Wash out mouth with water p unconscious person. Get med medical personnel.	-	-	
4.2	Important Symptoms and Effects, Both Acute and Delayed:	May cause anemia, cough, C (weakness, exhaustion), liver			-
		Section 5. Fire	Fighting Mea	sures	
5.1	Suitable Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water,	, or dry chemical	spray.
	Media:	Use water spray to cool fire-e	exposed containers.		
	Unsuitable Extinguishing Media:	A solid water stream may be	inefficient.		
5.2	Flammable Properties and	dCan release vapors that form	explosive mixtures a	at temperatures a	t or above the flashpoint.
	Hazards:	Container explosion may occ	ur under fire condition	ns.	
		Emits toxic fumes under fire of	conditions.		
		Sensitive to static discharge.			
		Vapors can travel to a source	e of ignition and flash	back.	
		No data available.			
	Flash Pt:	14.00 C Method Used: Clo		_	
	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-conta equivalent), and full protective Note: Flammable as diluted in	e gear to prevent con	•	· · ·
		Section 6. Acciden	ital Release M	leasures	
6.1	Protective Precautions,	Avoid breathing vapors and	provide adequate ver	ntilation.	
	Protective Equipment and				athing apparatus, or respirator,
	Emergency Procedures:	and appropriate personal pro	otection (rubber boots	s, safety goggles,	and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release	into the environment,	if safe to do so.	
6.3		Contain spill and collect, as a			
	Containment and Cleanin Up:	gTransfer to a chemical waste	e container for dispos	al in accordance	with local regulations.



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	HEMICAL						
		Section 7. H	landling and Storage				
7.1	7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.						
	in Handling:	Avoid prolonged or repea	ted exposure.				
Keep away from sources of ignition.							
		Take precautionary measures against static discharge.					
7.2	Precautions To Be Taken						
	in Storing:	Keep container tightly clo					
			information listed on the product insert.				
	Other Precautions:	Hygroscopic					
	Sect	ion 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				
			STEL: 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:						
8.2.1	Engineering Controls	-	local exhaust ventilation, or other engineering co	ontrols to control airborne			
	(Ventilation etc.):	levels below recommende	ed exposure limits.				
8.2.2	Personal protection equip	oment:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resi	istant gloves				
	Other Protective Clothing	:Lab coat					
	Respiratory Equipment	NIOSH approved respirat	tor, as conditions warrant.				
	(Specify Type):						
	Work/Hygienic/Maintenan	,					
	ce Practices:		ng this material should be equipped with an eyew	ash and a safety shower.			
		Wash thoroughly after ha	ndling.				
		No data available.					
	S	ection 9. Physica	al and Chemical Properties				
9.1	Information on Basic Phys	sical and Chemical Prope	erties				
	Physical States:	[]Gas [X]L	_iquid [] Solid				
	Appearance and Odor:	A solution in ethar	nol				
	pH:	No data.					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:		I Used: Closed Cup				
	Evaporation Rate:	No data.					
	Flammability (solid, gas):						
	Explosive Limits:		at 25.0 C UEL: 19.0% at 25.0 C				
	Vapor Pressure (vs. Air or	rmm 43 MM_HG at	20.0 0				
	Hg): Vapor Density (vs. Air = 1): No data.					
	vapor Density (vs. All = I	<i>j</i> . NO Uala.		Multi region format			



	Specific	Cravity (Water :	= 1): 1	No data.					
	Solubili	ty in Water:	1	No data.					
	Octano	/Water Partition	1	No data.					
	Coeffic	ent:							
	Autoigr	ition Pt:	3	363.00 C					
	Decom	position Tempera	ature: 1	No data.					
	Viscosi	ty:	1	No data.					
9.2	Other In	formation							
	Percent	Volatile:	1	No data.					
	Molecu	lar Formula & We	eight: (C13H14O3	218.2				
			Se	ection 10). Stability ar	nd Reacti	vity		
10.1	Reactiv	ity:	No data	available.					
10.2	Stability	/:	Unstable	e[] Sta	able [X]				
10.3	Stability	/ Note(s):	Stable if	stored in ac	cordance with info	mation listed	on the produc	t insert.	
	Polyme	rization:	Will occ	ur[] W	/ill not occur [X]				
10.4	Conditi	ons To Avoid:	heat, fla	mes, and sp	arks				
10.5	Incomp	atibility - Materia	Is alkali me	etals					
	To Avo	d:	ammoni	а					
			peroxide						
			-	xidizing age	nts				
10.6	Hazardo		carbon o						
		position or	carbon r	monoxide					
	Byprod	ucts:							
			Sec	tion 11.	Toxicologic	al Inform	ation		
11.1	Informa	tion on		-	ects of this product				
	Toxicol	ogical Effects:			ata: Oral TDLO (ma				
					Dral LD50 (mouse):		-	-	-
			(rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800						
			ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3 (6h); Inhalation LCLO (mouse): 29,300 ppm (7h);						
			(6h); Inhalation LCLO (mouse): 29,300 ppm (7h); Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;						
	Chronic	: Toxicological			ed as a drug, mutag				
	Effects	-	and tum			jen, natarar pr	oddot, primary	initiant, reprod	delive encolor,
				•	of Toxic Effects of	Chemical Sul	ostances (RTE	CS) data is pre	esented here.
			-		RTECS for complete		-	, i	
			Ethanol	RTECS Nur	nber: KQ6300000				
Carciı	nogenicit	y:	NTP? N	o IARC	Monographs? No	OSHA R	egulated? No		
CAS	#	Hazardous Cor	nponents	(Chemical I	Name)	NTP	IARC	ACGIH	OSHA
9518	84-99-9	7-hydroxy-8-me	thyl-4-prop	yl-2H-1-ben	zopyran-2-one	n.a.	n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol				n.a.	1	A4	n.a.
		•				!	!	ŧ	-
1									



		Section 12. Ecolo	gical Informa	tion					
12.1 Toxicity	y:	Avoid release into the environme	ent.						
	Runoff from fire control or dilution water may cause pollution.								
12.2 Persist	ence and	No data available.							
Degrad	ability:								
12.3 Bioacc	umulative	No data available.							
Potenti	al:								
12.4 Mobility	y in Soil:	lo data available.							
12.5 Results	s of PBT and vPvB	PvB No data available.							
assess	ment:								
12.6 Other a	dverse effects:	No data available.							
		Section 13. Dispos	al Considera	tions					
13.1 Waste	Disposal Method:	Dispose in accordance with loca	l, state, and federal	regulations.					
		Section 14. Trans	sport Informa	tion					
14.1 LAND 1	FRANSPORT (US E	ЮТ):							
DOT Prope	er Shipping Name:	Ethyl Alcohol Solution							
DOT Haza	rd Class:	3 FLAMMABL	E LIQUID						
UN/NA Nu	mber:	UN1170	Packing Gro	up:	II				
	FRANSPORT (Euro Shipping Name:	pean ADR/RID): Ethyl Alcohol Solution							
UN Numbe		1170 Packing Group: II							
Hazard Cla		3 - FLAMMABLE LIQUID							
	ANSPORT (ICAO/I	ATA):							
	Shipping Name:	Ethyl Alcohol Solution							
UN Numbe		1170	Packing Gro	up:	II				
Hazard Cla	ass:	3 - FLAMMABLE LIQUID	IATA Classif	ication:	3				
Additional Tra	ansport	Transport in accordance with loc	cal, state, and federa	al regulations.					
Information:		When sold in quantities of less the E1, E2, E4, or E5, this item mee	-	-					
		Therefore packaging does not h							
		Section 15. Regula	atory Informa	ition					
EPA SARA (S	uperfund Amendm	ents and Reauthorization Act o	of 1986) Lists	-					
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
95184-99-9	7-hydroxy-8-meth	yl-4-propyl-2H-1-benzopyran-2-	No	No	No				
64-17-5	Ethyl alcohol		No	No	No				
					Multi-region forma				



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CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists			
95184-99-9	7-hydroxy-8-metl one	nyl-4-propyl-2H-1-benzopyran-2-	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 Inf Statement:	formation	This SDS was prepared in accor No.1272/2008.	rdance with 29 CFR 1910.1200 and Regulation (EC)			
		Section 16. Oth	er Information			
Revision Date	:	08/04/2019				
Additional Info This Product:	ormation About	No data available.				
Company Policy or Disclaimer:		currently available to us. However express or implied, with respect	s believed to be accurate and represents the best information er, we make no warranty of merchantability or any other warranty, to such information, and we assume no liability resulting from its wn investigations to determine the suitability of the information for			



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				2011 ALIO 211 Page 001	
		g to Regulation (EC) No. 1907/2006 as a			
	Section 1. I	dentification of the Substar	nce/Mixture and of t	the Company/Ui	ndertaking
1.1	Product Code:	24832			
	Product Name:	LAL Activity MaxSpec® A	Assay Internal Standa	ard	
	Synonyms:	13C4-PMHC;			
1.2	Relevant identified uses of	the substance or mixture a	and uses advised ag	gainst:	
	Relevant identified uses:	For research use only, no	ot for human or veter	inary use.	
1.3	Details of the Supplier of the	he Safety Data Sheet:			
	Company Name:	Cayman Chemical Comp	bany		
		1180 E. Ellsworth Rd.			
		Ann Arbor, MI 48108			
	Web site address:	www.caymanchem.com			
	Information:	Cayman Chemical Comp	bany	+1 (734	4)971-3335
1.4	Emergency telephone num				
	Emergency Contact:	CHEMTREC Within USA			0)424-9300
		CHEMTREC Outside US			3)527-3887
		Section 2. Ha	zards Identific	cation	
2.1	Classification of the Subst	ance or Mixture:			
	Flammable Liquids, Cate	egory 2			
2.2	Label Elements:				
	GHS Signal Word:	Danger			
	GHS Hazard Phrases:	-			
	GHS Hazard Phrases: H225: Highly flammable lic	quid and vapor.			
	GHS Hazard Phrases: H225: Highly flammable lic GHS Precautionary Phra	quid and vapor. ses:		_	
	GHS Hazard Phrases: H225: Highly flammable lic GHS Precautionary Phra P210: Keep away from {he	quid and vapor. ses: eat/sparks/open flames/hot su	•	•	
	GHS Hazard Phrases: H225: Highly flammable lic GHS Precautionary Phra P210: Keep away from {he P280: Wear {protective glo	quid and vapor. ses: eat/sparks/open flames/hot su oves/protective clothing/eye p	•	•	
	GHS Hazard Phrases: H225: Highly flammable lic GHS Precautionary Phra P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases:	quid and vapor. ses: eat/sparks/open flames/hot su oves/protective clothing/eye p	rotection/face protect	tion}.	Rinse skin with
	GHS Hazard Phrases: H225: Highly flammable lic GHS Precautionary Phra P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases:	quid and vapor. ses: eat/sparks/open flames/hot su oves/protective clothing/eye p	rotection/face protect	tion}.	. Rinse skin with
	GHS Hazard Phrases: H225: Highly flammable lic GHS Precautionary Phra P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SK water/shower.	quid and vapor. ses: eat/sparks/open flames/hot su oves/protective clothing/eye p IN (or hair): Remove/take off	rotection/face protect	tion}.	. Rinse skin with
	GHS Hazard Phrases: H225: Highly flammable lic GHS Precautionary Phra P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SK water/shower. GHS Storage and Dispose	quid and vapor. ses: eat/sparks/open flames/hot su oves/protective clothing/eye p IN (or hair): Remove/take off	rotection/face protect	tion}.	. Rinse skin with
2.3	 GHS Hazard Phrases: H225: Highly flammable lic GHS Precautionary Phrase P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SK water/shower. GHS Storage and Dispose Please refer to Section 7 for 	quid and vapor. ses: eat/sparks/open flames/hot su oves/protective clothing/eye p IN (or hair): Remove/take off sal Phrases:	rotection/face protect immediately all conta	tion}. aminated clothing n.	
2.3	GHS Hazard Phrases: H225: Highly flammable lic GHS Precautionary Phra P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SK water/shower. GHS Storage and Dispos Please refer to Section 7 fo Adverse Human Health	quid and vapor. ses: eat/sparks/open flames/hot su oves/protective clothing/eye p IN (or hair): Remove/take off cal Phrases: or Storage and Section 13 for	rotection/face protect immediately all conta Disposal information he mucous membrar	tion}. aminated clothing n. nes and upper res	
2.3	GHS Hazard Phrases: H225: Highly flammable lic GHS Precautionary Phra P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SK water/shower. GHS Storage and Dispose Please refer to Section 7 for Adverse Human Health Effects and Symptoms:	quid and vapor. ses: eat/sparks/open flames/hot su oves/protective clothing/eye p IN (or hair): Remove/take off cal Phrases: or Storage and Section 13 for Material may be irritating to t	rotection/face protect immediately all conta Disposal information he mucous membrar n, ingestion, or skin al	tion}. aminated clothing n. nes and upper res bsorption.	
2.3	GHS Hazard Phrases: H225: Highly flammable lic GHS Precautionary Phra P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SK water/shower. GHS Storage and Dispos Please refer to Section 7 fo Adverse Human Health Effects and Symptoms:	quid and vapor. ses: eat/sparks/open flames/hot su oves/protective clothing/eye p IN (or hair): Remove/take off cal Phrases: or Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	rotection/face protect immediately all conta Disposal information he mucous membran i, ingestion, or skin al iratory system irritatio	tion}. aminated clothing n. nes and upper res bsorption. on.	spiratory tract.
2.3	GHS Hazard Phrases: H225: Highly flammable lic GHS Precautionary Phra P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SK water/shower. GHS Storage and Dispos Please refer to Section 7 fo Adverse Human Health Effects and Symptoms:	quid and vapor. ses: eat/sparks/open flames/hot su oves/protective clothing/eye p IN (or hair): Remove/take off cal Phrases: or Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	rotection/face protect immediately all conta Disposal information he mucous membran i, ingestion, or skin al iratory system irritatio e, the toxicological pro	tion}. aminated clothing n. hes and upper res bsorption. on. operties have not	piratory tract. been thoroughly investigated
CAS	GHS Hazard Phrases: H225: Highly flammable lid GHS Precautionary Phra P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SK water/shower. GHS Storage and Dispos Please refer to Section 7 fo Adverse Human Health Effects and Symptoms: Secti # / Hazardous Compo	quid and vapor. ses: eat/sparks/open flames/hot sub- oves/protective clothing/eye po- IN (or hair): Remove/take off sal Phrases: or Storage and Section 13 for Material may be irritating to the May be harmful by inhalation May cause eye, skin, or responder To the best of our knowledge on 3. Composition ponents (Chemical Name)/	rotection/face protect immediately all conta Disposal information he mucous membran i, ingestion, or skin al iratory system irritatio e, the toxicological pro	tion}. aminated clothing n. hes and upper res bsorption. on. operties have not	piratory tract. been thoroughly investigated
CAS RTE NA	GHS Hazard Phrases: H225: Highly flammable lid GHS Precautionary Phran P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SK water/shower. GHS Storage and Dispos Please refer to Section 7 for Adverse Human Health Effects and Symptoms: Secti # / CS #	quid and vapor. ses: eat/sparks/open flames/hot sub- oves/protective clothing/eye po- IN (or hair): Remove/take off sal Phrases: or Storage and Section 13 for Material may be irritating to the May be harmful by inhalation May cause eye, skin, or responder To the best of our knowledge on 3. Composition ponents (Chemical Name)/	rotection/face protect immediately all conta Disposal information he mucous membrar i, ingestion, or skin al iratory system irritation e, the toxicological pro /Information c	tion}. aminated clothing n. hes and upper res bsorption. on. operties have not DN INGREDIE	piratory tract. been thoroughly investigated
2.3 CAS RTEO NA NA 64	GHS Hazard Phrases: H225: Highly flammable lid GHS Precautionary Phran P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases: P303+361+353: IF ON SK water/shower. GHS Storage and Dispos Please refer to Section 7 for Adverse Human Health Effects and Symptoms: Secti # / CS #	quid and vapor. ses: eat/sparks/open flames/hot su oves/protective clothing/eye p IN (or hair): Remove/take off cal Phrases: or Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge On 3. Composition onents (Chemical Name)/ on No.	rotection/face protect immediately all conta Disposal information he mucous membrar i, ingestion, or skin al iratory system irritation a, the toxicological pro /Information contaction	tion}. aminated clothing n. hes and upper res bsorption. on. operties have not ON INGREDIE EC No./ EC Index No. NA	piratory tract. been thoroughly investigated NtS GHS Classification



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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 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.
5.2	Flammable Properties and	dCan 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
5.3	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
6.1	Protective Precautions, Protective Equipment and Emergency Procedures:	Avoid breathing vapors and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3		\cdot Contain spill and collect, as appropriate. gTransfer to a chemical waste container for disposal in accordance with local regulations.



SAFETY DATA SHEET

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		S	Section 7. Handli	ing and Storage						
7.1	Precautions To Be Taken	Avoid b	preathing dust/fume/gas/m	ist/vapours/spray.						
	in Handling:	Avoid p	prolonged or repeated exp	osure.						
		Keep a	Keep away from sources of ignition.							
		Take p	Take precautionary measures against static discharge.							
7.2	Precautions To Be Taken	Keep a	Keep away from heat, sparks, and flame.							
	in Storing:	Keep o	ontainer tightly closed.							
		Store in	n accordance with informa	tion listed on the product insert.						
	Other Precautions:	Hygros	copic							
	Sec	tion 8	. Exposure Cont	rols/Personal Protection						
8.1	Exposure Parameters:									
CAS #	t Chemical Name		Jurisdiction	Recommended Exposure Limits	Notations					
64-17	-5 Ethyl alcohol		ACGIH TLV	TLV: 1000 ppm						
				STEL: 1000 ppm						
			France VL	TWA: 1900 mg/m3 (1000 ppm)						
		-	OSHA PELs	STEL: 9500 mg/m3 (5000 ppm)						
		ŀ	Britain EH40	PEL: 1000 ppm TWA: 1920 mg/m3 (1000 ppm)						
			Britain Er 140	STEL: ()						
8.2	Exposure Controls:									
8.2.1	Engineering Controls	Use pr	ocess enclosures, local ex	haust ventilation, or other engineering controls to	control airborne					
	(Ventilation etc.):	levels l	pelow recommended expo	sure limits.						
8.2.2	Personal protection equi	pment:								
	Eye Protection:	Safety	glasses							
	Protective Gloves:	Compa	tible chemical-resistant gl	oves						
	Other Protective Clothing	:Lab co	at							
	Respiratory Equipment	NIOSH	approved respirator, as c	onditions warrant.						
	(Specify Type):									
	Work/Hygienic/Maintenar	n Do not	take internally.							
	ce Practices:	Facilitie	es storing or utilizing this n	naterial should be equipped with an eyewash and	a safety shower.					
		Wash t	horoughly after handling.							
		No dat	a available.							
	S	ectior	n 9. Physical and	d Chemical Properties						
9.1	Information on Basic Phy	sical an	d 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, gas):		No data available.							
	Explosive Limits:		LEL: 3.3% at 25.0	0 C UEL: 19.0% at 25.0 C						
	Vapor Pressure (vs. Air o	r mm	43 MM_HG at 20.0 C							
	Hg):									

No data.

Vapor Density (vs. Air = 1):



	Specific	Gravity (Water :	= 1): No data.						
	-	ty in Water:	, No data.						
		/Water Partition	No data.						
	Coeffici								
		ition Pt:	363.00 C						
	-	osition Tempera							
	Viscosit	-	No data.						
9.2		formation	no data.						
9.2		Volatile:	No data						
			No data.	2 00					
	Wolecul	ar Formula & We				-			
			Section 10.	Stability and	Reactiv	/ity			
10.1	Reactiv	ity:	No data available.						
10.2	Stability	/:	Unstable [] Stab	le [X]					
10.3	Stability	v Note(s):	Stable if stored in acco	ordance with informa	tion listed o	on the product	insert.		
	Polyme	rization:	Will occur [] Will	not occur [X]					
10.4	Conditio	ons To Avoid:	heat, flames, and spar	ks					
10.5	Incomp	atibility - Materia	Is alkali metals						
	To Avoi	d:	ammonia						
			peroxides						
			strong oxidizing agents	3					
10.6	Hazardo	bus	carbon dioxide						
	Decomp	osition or	carbon monoxide	carbon monoxide					
	Byprod	ucts:							
			Section 11. T	oxicological	Informa	ation			
11.1	Informa	tion on	The toxicological effect				udied.		
		ogical Effects:	Ethanol - Toxicity Data	•				(g; Oral LD50	
		- J	(rat): 7,060 mg/kg; Ora		-			-	
			(rabbit): 6,300 mg/kg; I	nhalation LC50 (rat)	: 20,000 pp	om (10h); Inha	ation TCLO (h	uman): 1,800	
			ppm (30m); Inhalation	TCLO (human): 2,50	00 mg/m3 (20m); Inhalatio	on LC50 (rat):	5,900 mg/m3	
			(6h); Inhalation LCLO	(mouse): 29,300 ppr	n (7h);				
			Ethanol - Irritation Data	a: Eyes (rabbit): 500	mg (24h) n	nild; Skin (rabl	oit): 20 mg (24	h) moderate;	
	Chronic	Toxicological	Ethanol - Investigated	as a drug, mutagen,	natural pro	duct, primary	irritant, reprod	uctive effector,	
	Effects:		and tumorigen.						
			Only select Registry of	Toxic Effects of Che	emical Sub	stances (RTE	CS) data is pre	sented here.	
			See actual entry in RT	ECS for complete in	formation.				
			Ethanol RTECS Numb	er: KQ6300000					
Carciı	nogenicit	y:	NTP? No IARC M	lonographs? No	OSHA Re	gulated? No			
CAS	#	Hazardous Cor	nponents (Chemical Na	me)	NTP	IARC	ACGIH	OSHA	
	NA	LAL Activity Max	Spec® Assay Internal S	tandard	n.a.	n.a.	n.a.	n.a.	
64	-17-5	Ethyl alcohol			n.a.	1	A4	n.a.	
		ļ			ł		 	ļ	



			Section 12. Ecolo	gical Informat	ion					
12.1	-									
			Runoff from fire control or dilutio	n water may cause p	ollution.					
12.2	Persiste	istence and No data available.								
	Degrada	ability:	pility:							
12.3		Imulative	No data available.							
	Potentia									
12.4	Mobility		No data available.							
12.5	Results assessr		No data available.							
12.6	Other a	dverse effects:	No data available.							
			Section 13. Dispos	al Considerat	ions					
13.1	Waste D	Disposal Method:	Dispose in accordance with loca	I, 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							
	OT Hazar		3 FLAMMABI							
U	N/NA Nun	nber:	UN1170	Packing Grou	ıp:	II				
14.1		RANSPORT (Euro								
		hipping Name:	Ethyl Alcohol Solution	Dealing One						
_	N Numbe azard Cla		1170 3 - FLAMMABLE LIQUID	Packing Grou	ip:	II				
		SS. ANSPORT (ICAO/I.								
		Shipping Name:	Ethyl Alcohol Solution							
	N Numbe		1170	Packing Grou	ıp:	II				
н	azard Cla	SS:	3 - FLAMMABLE LIQUID	IATA Classifi	cation:	3				
	ional Tra mation:	nsport	Transport in accordance with low When sold in quantities of less t E1, E2, E4, or E5, this item mee Therefore packaging does not h	han or equal to 1 mL ets the De Minimis Qu	, or 1 g, with an Exce lantities exemption, p	per IATA 2.6.10.				
L			Section 15. Regul	atory Informa	tion					
	•	-	ents and Reauthorization Act o	of 1986) Lists		1				
CAS	#	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
	NA		Spec® Assay Internal Standard	No	No	No				
64	-17-5	Ethyl alcohol		No	No	No				
CAS	#	Hazardous Com	ponents (Chemical Name)	Other US EPA or \$	State Lists					
	NA	LAL Activity Max	Spec® Assay Internal Standard	CAA HAP,ODC: N PROP.65: No	o; CWA NPDES: No	; TSCA: No; CA				
64	-17-5	Ethyl alcohol		CAA HAP,ODC: N	o; CWA NPDES: No	; TSCA: Yes -				
		ı		1						
						Multi-region formation				



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	Inventory; CA PROP.65: No								
Regulatory Info Statement:	rmation	ation This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.							
		Section 16. Other Information							
Revision Date:		08/04/2019							
Additional Infor	mation About	No data available.							
This Product:									
Additional Information About This Product: Company Policy or Disclaimer:		DISCLAIMER: This information is currently available to us. Howeve express or implied, with respect	s believed to be accurate and represents the best information er, we make no warranty of merchantability or any other warranty, to such information, and we assume no liability resulting from its wn investigations to determine the suitability of the information for						



Revision: 08/04/2019

		according	o Regulation (EC) No. 1907/2006 as	amended by (EC) No. 201	5/830 and US OSHA HCS	2015
		Section 1. Id	entification of the Substa	nce/Mixture and o	of the Company/U	ndertaking
1.1	Produc	ct Code:	28361			
	Produc	ct Name:	Cardiolipin (bovine hear) Solution		
1.2	Releva	nt identified uses of t	he substance or mixture a	and uses advised	against:	
	Relev	ant identified uses:	For research use only, n	ot for human or vet	terinary use.	
1.3	Details	of the Supplier of the	e Safety Data Sheet:			
	Com	pany Name:	Cayman Chemical Com	bany		
			1180 E. Ellsworth Rd.			
	Web	site address:	Ann Arbor, MI 48108 www.caymanchem.com			
		mation:	Cayman Chemical Com	oanv	+1 (73	4)971-3335
1.4		ency telephone num				.)
	-	rgency Contact:	CHEMTREC Within US	A and Canada:	+1 (80	0)424-9300
		, · · · · · · ·	CHEMTREC Outside US			3)527-3887
			Section 2. Ha	zards Identif	fication	
2.1	Classif	ication of the Substa				
		mable Liquids, Categ				
2.2		Elements:				
	<u> </u>	N N N N N N N N N N N N N N N N N N N				
	GHS	Signal Word: Hazard Phrases: 5: Highly flammable liqu	Danger			
		Precautionary Phras	-			
	P210	: Keep away from {hea	ut/sparks/open flames/hot su res/protective clothing/eye p	-	-	
	GHS	Response Phrases:	N (or hair): Remove/take off			. Rinse skin with
	water	r/shower.				
	GHS	Storage and Disposa	I Phrases:			
	Pleas	se refer to Section 7 for	Storage and Section 13 fo	r Disposal informati	ion.	
2.3	Adver		Aaterial may be irritating to t			spiratory tract.
	Effects	, ,	Aay be harmful by inhalatior	-	-	
			Nay cause eye, skin, or resp			
-				· · ·		t been thoroughly investigated.
		Sectio	on 3. Composition	n/Information	on Ingredie	nts
						1
CAS RTE	\$ # / :CS #	Hazardous Compo REACH Registratio	nents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification
			n No.	Concentration 0.5 %		GHS Classification No data available.



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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 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 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 Media:	A solid water stream may be inefficient.
5.2	Flammable Properties an	dCan 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
5.3	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
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.
	Protective Equipment and	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 Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3		\cdot Contain spill and collect, as appropriate. gTransfer to a chemical waste container for disposal in accordance with local regulations.



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		S	Section 7. Hand	ling and Storage				
7.1	Precautions To Be Taken	Avoid I	preathing dust/fume/gas/r	nist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.						
		Keep away from sources of ignition.						
		Take p	recautionary measures a	gainst static discharge.				
7.2	Precautions To Be Taken	Keep a	way from heat, sparks, a	nd flame.				
	in Storing:	Keep o	container tightly closed.					
		Store i	n accordance with informa	ation listed on the product i	nsert.			
	Other Precautions:	Hygros	scopic					
	Sect	ion 8	. Exposure Con	trols/Personal Pro	otection			
8.1	Exposure Parameters:							
CAS #	# Chemical Name		Jurisdiction	Recommended Exposu	re Limits	Notations		
64-17	-5 Ethyl alcohol		ACGIH TLV	TLV: 1000 ppm STEL: 1000 ppm				
			France VL	TWA: 1900 mg/m3 (1000 pp				
				STEL: 9500 mg/m3 (5000 p)	pm)			
			OSHA PELs	PEL: 1000 ppm				
			Britain EH40	TWA: 1920 mg/m3 (1000 pp STEL: ()	orri)			
8.2	Exposure Controls:			1		1		
8.2.1	Engineering Controls	Use pr	ocess enclosures, local e	xhaust ventilation, or other	engineering controls to	o control airborn		
	(Ventilation etc.):	levels l	pelow recommended expo	osure limits.				
8.2.2	Personal protection equip	oment:						
	Eye Protection: Safety glasses							
	Protective Gloves:	Compa	atible chemical-resistant g	loves				
	Other Protective Clothing	:Lab co	at					
	Respiratory Equipment	NIOSH	approved respirator, as	conditions warrant.				
	(Specify Type):							
	Work/Hygienic/Maintenan	Do not	take internally.					
	ce Practices:			material should be equippe	d with an eyewash and	d a safety showe		
		Washt	horoughly after handling.					
		No dat	a available.					
	S	ectior	n 9. Physical an	d Chemical Prope	erties			
9.1	Information on Basic Phys	sical an	d 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, gas):		No data available.					
	Explosive Limits:		LEL: 3.3% at 25	.0 C UEL: 19.0%	at 25.0 C			
	Vapor Pressure (vs. Air o	r mm	43 MM_HG at 20.0 C					
	Hg):							
	Vapor Density (vs. Air = 1):	No data.					
						Multi-region form		



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	•	c Gravity (Water :	= 1):	No data.					
		ity in Water:		No data.					
		I/Water Partition		No data.					
	Coeffic	ient:							
	Autoig	nition Pt:		363.00 C					
	Decom	position Tempera	ature:	No data.					
	Viscosi	ity:		No data.					
9.2	Other In	formation							
	Percen	t Volatile:		No data.					
			S	Section 10. Stabili	ty and R	leactivi	ty		
10.1	Reactiv	vity:	No da	ata available.					
10.2	Stabilit	y:	Unsta	able [] Stable [X]					
10.3	Stabilit	y Note(s):	Stable	e if stored in accordance wi	th informatio	n listed on	the product	insert.	
	Polyme	erization:	Will o	ccur [] Will not occur	[X]				
10.4	Conditi	ons To Avoid:	heat,	flames, and sparks					
10.5	Incomp	atibility - Materia	ls alkali	metals					
	To Avo	id:	ammo	onia					
			perox	ides					
			strong	g oxidizing agents					
10.6	Hazard	ous	carbo	n dioxide					
	Decom	position or	carbo	n monoxide					
	Byprod	lucts:							
			Se	ection 11. Toxicol	ogical In	format	ion		
11.1	Informa	ation on	The to	oxicological effects of this p	roduct have	not been t	horoughly st	udied.	
	Toxicol	logical Effects:	Ethan	ol - Toxicity Data: Oral TDL	O (man): 1.	14 ml/kg; (Dral TDLO (n	nan): 650 mg/k	g; Oral LD50
			(rat):	7,060 mg/kg; Oral LD50 (m	ouse): 3,450	mg/kg; O	ral LD50 (mo	ouse): 10.5 ml/l	kg; Oral LD50
			(rabbi	it): 6,300 mg/kg; Inhalation	LC50 (rat): 2	0,000 ppn	n (10h); Inha	lation TCLO (h	uman): 1,800
			ppm ((30m); Inhalation TCLO (hu	man): 2,500	mg/m3 (20	0m); Inhalatio	on LC50 (rat):	5,900 mg/m3
				Inhalation LCLO (mouse): 2					
				ol - Irritation Data: Eyes (ra				, .	
		c Toxicological		ol - Investigated as a drug,	mutagen, na	atural prod	uct, primary	irritant, reprod	uctive effector,
	Effects	:		umorigen.			(
			•	select Registry of Toxic Effe			ances (RIE	CS) data is pre	sented here.
				actual entry in RTECS for co nol RTECS Number: KQ630	•	mation.			
.		1							
	Carcinogenicity:		NTP?	0 1		ла кед	ulated? No		
CAS			•	ts (Chemical Name)	N	NTP	IARC	ACGIH	OSHA
	NA	Cardiolipin (bov	ine hear	t) Solution		i.a.	n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol			n	i.a.	1	A4	n.a.



			-		_	7					
	Section 12. Ecological Information										
12.1	•										
			Runoff from fire control or dil	ution water may cause p	ollution.						
12.2		istence and No data available.									
	-	adability:									
12.3		mulative	No data available.								
	Potentia		NI 17 911								
12.4	Mobility		No data available.								
12.5			No data available.								
12.6	assessn Other ac	dverse effects:	No data available.								
	•		Section 13. Disp	osal Considerat	ione						
13.1	Wasto D	visposal Method:	Dispose in accordance with I								
	waste D		•		•						
				ansport Informa	lion						
14.1		RANSPORT (US D	-								
	-	r Shipping Name:	Ethyl Alcohol Solution								
	OT Hazaro N/NA Nun		3 FLAMM UN1170	ABLE LIQUID		Ш					
	N/NA NUI	iber:	UNTI7U	Packing Gro	up:	П					
			FLOMMUBLE LIQUID								
14.1	LAND T	RANSPORT (Euro	pean ADR/RID):								
	DR/RID SI	hipping Name:	Ethyl Alcohol Solution								
UI	N Number	r:	1170	Packing Gro	ıp:	II					
Ha	azard Cla	ss:	3 - FLAMMABLE LIQUI	D							
14.3		ANSPORT (ICAO/I	ATA):								
IC	ΑΟ/ΙΑΤΑ	Shipping Name:	Ethyl Alcohol Solution								
_	N Number		1170	-	Packing Group:						
Ha	azard Cla	SS:	3 - FLAMMABLE LIQUI	D IATA Classifi	cation:	3					
	ional Tra	nsport	Transport in accordance with		-						
Inforr	nation:		When sold in quantities of le	-	-						
			E1, E2, E4, or E5, this item I Therefore packaging does n								
			Section 15. Rec		-						
EPA S	SARA (Su	perfund Amendm	ents and Reauthorization A	•							
CAS		1	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)					
	NA	Cardiolipin (bovin	,	No	No	No					
64	-17-5	Ethyl alcohol	·	No	No	No					
CAS	#	Hazardous Com	ponents (Chemical Name)	Other US EPA or	+ State Lists	1					
	NA	Cardiolipin (bovin			o; CWA NPDES: No	; TSCA: No; CA					
64	-17-5	Ethyl alcohol		CAA HAP,ODC: N	o; CWA NPDES: No	; TSCA: Yes -					
		1									
						Multi-region format					



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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					
evision Date: 08/04/2019						
Additional Information About This Product:	No data available.					
This Product: 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.					



Revision: 10/04/2019

		according to	Regulation (EC) No. 1907/2006 as a	mended by (EC) No. 2015/8	30 and US OSHA HCS	2015
		Section 1. Ide	entification of the Substan	nce/Mixture and of t	he Company/Ur	ndertaking
1.1	Product Product		28362 LAL Activity Assay Buffer			
1.2	Relevar	nt identified uses of th	ne substance or mixture a	ind uses advised ag	gainst:	
	Releva	ant identified uses:	For research use only, no	ot for human or veter	inary use.	
1.3		of the Supplier of the any Name:	Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
	Web s	site address:	www.caymanchem.com			
	Inform	nation:	Cayman Chemical Comp	any	+1 (734	4)971-3335
1.4	-	ency telephone numb gency Contact:	er: CHEMTREC Within USA CHEMTREC Outside US		•	0)424-9300 3)527-3887
			Section 2. Haz	zards Identific	cation	
2.1 2.2		cation of the Substar lements:	nce or Mixture: None			
2.3	Based GHS I No ph GHS I No ph GHS S Please Advers	Precautionary Phrase trases apply. Response Phrases: trases apply. Storage and Disposal e refer to Section 7 for the Human Health Ma and Symptoms: Ma Ta	Phrases: Storage and Section 13 for aterial may be irritating to th ay be harmful by inhalation ay cause eye, skin, or resp	Disposal informatior he mucous membran , ingestion, or skin al iratory system irritatio e, the toxicological pro	n. les and upper res bsorption. on. operties have not	piratory tract. been thoroughly investigated.
CAS RTE	6 # / CS #	Hazardous Compon REACH Registration	ents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA		LAL Activity Assay Buffe	PL	100.0 %	NA NA	No data available.



Revision: 10/04/2019

		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 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.
		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 Media:	A solid water stream may be inefficient.
5.2	Flammable Properties an	d No data available.
	Hazards:	
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	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.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	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		r Contain spill and collect, as appropriate.
	Containment and Cleanir	\log Transfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.



	(Ventilation etc.):					
8.2.2	Personal protection equi	oment:				
	Eye Protection: Safety glasses					
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing					
	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 show				
		ash thoroughly after handling.				
		No data available.				
	S	ection 9. Physical and Chemical Properties				
9.1		sical and Chemical Properties				
	Physical States:	[]Gas [X]Liquid []Solid				
	Appearance and Odor:	Liquid				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	No data.				
	Evaporation Rate:	No data.				
	Flammability (solid, gas):					
	Explosive Limits:	LEL: No data. UEL: No data.				
	Vapor Pressure (vs. Air or mm No data.					
	Hg):					
	Vapor Density (vs. Air = 1	-				
	Specific Gravity (Water =					
	Solubility in Water:	No data.				
	Octanol/Water Partition Coefficient:	No data.				
		No dete				
	Autoignition Pt:	No data. ure: No data.				
	Decomposition Temperat Viscosity:	No data.				
9.2	Other Information					
J.Z	Percent Volatile:	No data.				
	i ercent volatile.					
		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.				
10.4	Polymerization:	Will occur [] Will not occur [X]				
10.4	Conditions To Avoid:	No data available.				
10.5	Incompatibility - Materials	s no data available.				
10 6	To Avoid:	No data available				
10.6	Hazardous	No data available.				
	Decomposition or Byproducts:					
	Byproducts:					
		Multi-region fo				



NA LAL Activity Assay Buffer n.a. Na. <		ation on logical Effects:	The toxicological effects of this	product have not be	en thoroughly stu	udied.	
Section 12. Ecological Information Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 2.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 2.2 Persistence and Degradability: No data available. 2.3 Bioaccumulative Potential: No data available. 2.4 Mobility in Soil: No data available. 2.5 Results of PBT and vPVB No data available. assessment: 2.6 Other adverse effects: No data available. Section 13. Disposal Considerations 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information IAIN TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UNVNA Number: Hazard Class: Vot dangerous goods. UN Number: Hazard Class: Additional Transport Information Exection 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) <th>CAS #</th> <th>Hazardous Com</th> <th>ponents (Chemical Name)</th> <th>NTP</th> <th>IARC</th> <th>ACGIH</th> <th>OSHA</th>	CAS #	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
2.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 2.2 Persistence and Degradability: No data available. 2.3 Bitaaccumulative No data available. No data available. 2.4 Mobility in Soil: No data available. 2.5 Results of PBT and vPvB No data available. 2.6 Other adverse effects: No data available. 2.6 Other adverse effects: No data available. 2.6 Other adverse effects: No data available. 2.7 Other adverse effects: No data available. 2.8 Section 13. Disposal Considerations 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. 3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations. DOT Proper Shipping Name: Not dangerous goods. DUT Hazard Class: UNNANber: Hazard Class: Not dangerous goods. UN Number: Hazard Class: Not dangerous goods. Packing Group: Hazard Class: Not dangerous goods. Packing Group: Hazard Class: Not dangerous go	NA	LAL Activity Assa	y Buffer	n.a.	n.a.	n.a.	n.a.
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egulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)				
Statement:	No.1272/2008.			
	Section 16. Other Information			
Revision Date:	10/04/2019			
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.			