

Multi-region format

Revision:	08/24/2015
Supersedes Revision:	04/05/2013

.1	Section 1.		
.1		Identification of the Substance/Mixture and of the	he Company/Undertaking
	Product Code:	50351	
	Product Name:	8(9)-EET	
	Synonyms:	(±)8(9)-epoxy-5Z,11Z,14Z-eicosatrienoic acid;	; 8(9)-EpETrE;
2	Relevant identified uses of	f the substance or mixture and uses advised ag	jainst:
	Relevant identified uses	: For research use only, not for human or veteri	nary use.
3	Details of the Supplier of	the Safety Data Sheet:	
	Company Name:	Cayman Chemical Company 1180 E. Ellsworth Rd.	
		Ann Arbor, MI 48108	
	Web site address:	www.caymanchem.com	
	Information:	Cayman Chemical Company	+1 (734)971-3335
4	Emergency telephone nu	nber:	
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887
		Section 2. Hazards Identific	ation
1	Classification of the Subs		
•			
.2	Flammable Liquids, Cat Label Elements:	egory z	
	Laber Elements.		
	GHS Signal Word:	Danger	
-	GHS Signal Word: GHS Hazard Phrases:	-	
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable I	quid and vapor	
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable I GHS Precaution Phrase	quid and vapor s:	
-	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable I GHS Precaution Phrase P210: Keep away from {h	quid and vapor	-
-	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable I GHS Precaution Phrase P210: Keep away from {h P280: Wear protective gla	quid and vapor s: eat/sparks/open flames/hot surfaces} No smoking oves/clothing and eye/face protection as specified by	-
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable I GHS Precaution Phrases P210: Keep away from {h P280: Wear protective gla authority. GHS Response Phrases	quid and vapor s: eat/sparks/open flames/hot surfaces} No smoking oves/clothing and eye/face protection as specified by	y the manufacturer/supplier or the competent
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable I GHS Precaution Phrase P210: Keep away from {h P280: Wear protective gla authority. GHS Response Phrases P303+361+353: IF ON Si	quid and vapor s: eat/sparks/open flames/hot surfaces} No smoking oves/clothing and eye/face protection as specified by :: KIN (or hair): Remove/take off immediately all conta	y the manufacturer/supplier or the competent
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable I GHS Precaution Phrase P210: Keep away from {h P280: Wear protective gla authority. GHS Response Phrases P303+361+353: IF ON Si water/shower. GHS Storage and Dispo	quid and vapor s: eat/sparks/open flames/hot surfaces} No smoking oves/clothing and eye/face protection as specified by :: KIN (or hair): Remove/take off immediately all conta	y the manufacturer/supplier or the competent
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable I GHS Precaution Phrase P210: Keep away from {h P280: Wear protective gla authority. GHS Response Phrases P303+361+353: IF ON Si water/shower. GHS Storage and Dispo	quid and vapor s: eat/sparks/open flames/hot surfaces} No smoking oves/clothing and eye/face protection as specified by :: KIN (or hair): Remove/take off immediately all contance sal Phrases:	y the manufacturer/supplier or the competent uminated clothing. Rinse skin with
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable I GHS Precaution Phrases P210: Keep away from {h P280: Wear protective gle authority. GHS Response Phrases P303+361+353: IF ON Si water/shower. GHS Storage and Dispon Please refer to Section 7	quid and vapor s: eat/sparks/open flames/hot surfaces} No smoking oves/clothing and eye/face protection as specified by :: KIN (or hair): Remove/take off immediately all conta sal Phrases: for Storage and Section 13 for Disposal information	y the manufacturer/supplier or the competent minated clothing. Rinse skin with es and upper respiratory tract.
3	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable I GHS Precaution Phrase P210: Keep away from {h P280: Wear protective gla authority. GHS Response Phrases P303+361+353: IF ON Si water/shower. GHS Storage and Dispon Please refer to Section 7 Adverse Human Health	quid and vapor s: eat/sparks/open flames/hot surfaces} No smoking oves/clothing and eye/face protection as specified by :: KIN (or hair): Remove/take off immediately all contant sal Phrases: for Storage and Section 13 for Disposal information Material may be irritating to the mucous membrane	y the manufacturer/supplier or the competent minated clothing. Rinse skin with es and upper respiratory tract. psorption.



Multi-region format

	Section 3. Composition/Information on Ingredients						
CAS # / RTECS #				EC No./ EC Index No.	GHS Classification		
NA NA		8(9)-EET		0.01 %	NA NA	No data available.	
64-17-5 Ethyl alcohol KQ6300000				99.99 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225	
		·		·	·	·	
			Section 4. Fi	rst Aid Measu	ures		
4.1	Descrip	tion of First Aid					
	Measur	es:					
	In Case	of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		I respiration or giv	ve oxygen by trained personnel.	
	In Case	of Skin Contact:	Immediately wash skin with s	oap and plenty of wa	ater for at least 15	minutes. Remove contaminate	
			clothing. Get medical attentio	n if symptoms occur	. Wash clothing b	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	
	In Case	of Ingestion:	Wash out mouth with water p	•	•		
			•	dical attention. Do N	OT induce vomitir	ng unless directed to do so by	
1.2	Imnorta	int Symptoms and	medical personnel.	may cause anemia	couch CNS depr	ession, drowsiness, headache,	
t. <u>८</u>	importa	and Symptoms and	i iiiilaliiig lu eyes, skiii, iiuse, i				
	Effects	Both Acute and		-	-		
	Effects, Delayed	, Both Acute and d:	heart damage, lassitude (weat teratogenic effects.	-	-		
	-		heart damage, lassitude (wea	akness, exhaustion),	liver damage, na		
5.1	Delayed		heart damage, lassitude (wea teratogenic effects.	Fighting Mea	liver damage, na	rcosis, reproductive effects,	
5.1	Delayed	d:	heart damage, lassitude (weateratogenic effects.	Fighting Mea	liver damage, na	rcosis, reproductive effects,	
5.1	Delayed Suitable Media: Unsuita	d: e Extinguishing	heart damage, lassitude (weateratogenic effects. Section 5. Fire	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers.	liver damage, na	rcosis, reproductive effects,	
	Delayed Suitable Media: Unsuita Media:	d: e Extinguishing Ible Extinguishing	heart damage, lassitude (weateratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-end A solid water stream may be	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient.	liver damage, na ASURES r, or dry chemical	rcosis, reproductive effects,	
	Delayed Suitable Media: Unsuita Media: Flamma	d: e Extinguishing able Extinguishing able Properties an	heart damage, lassitude (weateratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-e A solid water stream may be dCan release vapors that form	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient.	liver damage, na ASURES r, or dry chemical at temperatures a	rcosis, reproductive effects,	
	Delayed Suitable Media: Unsuita Media:	d: e Extinguishing able Extinguishing able Properties an	heart damage, lassitude (weat teratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-e A solid water stream may be dCan release vapors that form Container explosion may occ	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. a explosive mixtures cur under fire condition	liver damage, na ASURES r, or dry chemical at temperatures a	rcosis, reproductive effects,	
	Delayed Suitable Media: Unsuita Media: Flamma	d: e Extinguishing able Extinguishing able Properties an	heart damage, lassitude (weat teratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-e A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditions.	liver damage, na ASURES r, or dry chemical at temperatures a	rcosis, reproductive effects,	
	Delayed Suitable Media: Unsuita Media: Flamma	d: e Extinguishing able Extinguishing able Properties an	heart damage, lassitude (weat teratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-e A solid water stream may be dCan release vapors that form Container explosion may occ	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditions.	liver damage, na ASURES r, or dry chemical at temperatures a ons.	rcosis, reproductive effects,	
	Delayed Suitable Media: Unsuita Media: Flamma	d: e Extinguishing able Extinguishing able Properties an	heart damage, lassitude (weat teratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-effect A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire of Sensitive to static discharge.	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. n explosive mixtures cur under fire conditions.	liver damage, na ASURES r, or dry chemical at temperatures a ons.	rcosis, reproductive effects,	
	Delayed Suitable Media: Unsuita Media: Flamma	d: e Extinguishing able Extinguishing able Properties an s:	heart damage, lassitude (weateratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-e A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. a explosive mixtures cur under fire condition conditions. e of ignition and flast	liver damage, na ASURES r, or dry chemical at temperatures a ons.	rcosis, reproductive effects,	
	Delayed Suitable Media: Unsuita Media: Flamma Hazards	d: e Extinguishing able Extinguishing able Properties an s:	heart damage, lassitude (weat teratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-en- A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire en- Sensitive to static discharge. Vapors can travel to a source No data available.	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. a explosive mixtures cur under fire condition conditions. a of ignition and flash osed Cup	liver damage, na asures r, or dry chemical at temperatures a ons.	rcosis, reproductive effects,	
	Delayed Suitable Media: Unsuita Media: Flamma Hazards	d: e Extinguishing able Extinguishing able Properties an s: t:	heart damage, lassitude (weater teratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-en- A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire of Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: Clean	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. a explosive mixtures cur under fire condition conditions. a of ignition and flash osed Cup	liver damage, na asures r, or dry chemical at temperatures a ons.	rcosis, reproductive effects,	
5.2	Delayed Suitable Media: Unsuita Media: Flamma Hazards Flash P Explosi Autoign	d: e Extinguishing able Extinguishing able Properties an s: t: ve Limits: hition Pt:	heart damage, lassitude (weat teratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-en- A solid water stream may be d Can release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: Cla LEL: 3.3% at 25.0 C	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. a explosive mixtures cur under fire condition conditions. a of ignition and flash osed Cup UEL: 19.0%	liver damage, na ASURES r, or dry chemical at temperatures a ons. h back. at 25.0 C	spray.	
5.2	Delayed Suitable Media: Unsuita Media: Flamma Hazards Flash P Explosi Autoign	d: e Extinguishing able Extinguishing able Properties an s: t: ve Limits: hition Pt:	heart damage, lassitude (weateratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-e A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: Cle LEL: 3.3% at 25.0 C 363.00 C	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. a explosive mixtures cur under fire condition conditions. a of ignition and flash osed Cup UEL: 19.0% ained breathing appare	liver damage, na asures r, or dry chemical at temperatures a ons. h back. at 25.0 C aratus pressure-d	rcosis, reproductive effects, spray. at or above the flashpoint. emand (NIOSH approved or	
5.2	Delayed Suitable Media: Unsuita Media: Flamma Hazards Flash P Explosi Autoign	d: e Extinguishing able Extinguishing able Properties an s: t: ve Limits: hition Pt:	heart damage, lassitude (weater teratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-en- A solid water stream may be d Can release vapors that form Container explosion may occ Emits toxic fumes under fire of Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: Clo LEL: 3.3% at 25.0 C 363.00 C a : As in any fire, wear self-container equivalent), and full protective	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. a explosive mixtures cur under fire condition conditions. a of ignition and flash osed Cup UEL: 19.0% ained breathing appare	liver damage, na asures r, or dry chemical at temperatures a ons. h back. at 25.0 C aratus pressure-d	rcosis, reproductive effects, spray. at or above the flashpoint. emand (NIOSH approved or	
5.2	Delayed Suitable Media: Unsuita Media: Flamma Hazards Flash P Explosi Autoign	d: e Extinguishing able Extinguishing able Properties an s: t: ve Limits: hition Pt:	heart damage, lassitude (weater teratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-en- A solid water stream may be d Can release vapors that form Container explosion may occ Emits toxic fumes under fire of Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: Clo LEL: 3.3% at 25.0 C 363.00 C a : As in any fire, wear self-container equivalent), and full protective	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. a explosive mixtures cur under fire condition conditions. a of ignition and flash osed Cup UEL: 19.0% ained breathing appare	liver damage, na asures r, or dry chemical at temperatures a ons. h back. at 25.0 C aratus pressure-d	rcosis, reproductive effects, spray. at or above the flashpoint.	
5.2	Delayed Suitable Media: Unsuita Media: Flamma Hazards Flash P Explosi Autoign	d: e Extinguishing able Extinguishing able Properties an s: t: ve Limits: hition Pt:	heart damage, lassitude (weater teratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-en- A solid water stream may be d Can release vapors that form Container explosion may occ Emits toxic fumes under fire of Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: Clo LEL: 3.3% at 25.0 C 363.00 C a : As in any fire, wear self-container equivalent), and full protective	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. a explosive mixtures cur under fire condition conditions. a of ignition and flash osed Cup UEL: 19.0% ained breathing appare	liver damage, na asures r, or dry chemical at temperatures a ons. h back. at 25.0 C aratus pressure-d	rcosis, reproductive effects, spray. at or above the flashpoint. emand (NIOSH approved or	
5.1 5.2	Delayed Suitable Media: Unsuita Media: Flamma Hazards Flash P Explosi Autoign	d: e Extinguishing able Extinguishing able Properties an s: t: ve Limits: hition Pt:	heart damage, lassitude (weater teratogenic effects. Section 5. Fire Use alcohol-resistant foam, of Use water spray to cool fire-en- A solid water stream may be d Can release vapors that form Container explosion may occ Emits toxic fumes under fire of Sensitive to static discharge. Vapors can travel to a source No data available. 14.00 C Method Used: Clo LEL: 3.3% at 25.0 C 363.00 C a : As in any fire, wear self-container equivalent), and full protective	Akness, exhaustion), Fighting Mea carbon dioxide, wate exposed containers. inefficient. a explosive mixtures cur under fire condition conditions. a of ignition and flash osed Cup UEL: 19.0% ained breathing appare	liver damage, na asures r, or dry chemical at temperatures a ons. h back. at 25.0 C aratus pressure-d	rcosis, reproductive effects, spray. at or above the flashpoint.	



1			Section 6. Ac	cidental Release Me	easures				
6.1	Protec	tive Precautions,	Avoid breathing vapo	ors and provide adequate venti	lation.				
		ective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,							
		ency Procedures:		onal protection (rubber boots,					
6.2	-	nmental	Take steps to avoid	elease into the environment, if	safe to do so.				
	Precautions:								
6.3			r Contain spill and coll	ect as appropriate					
			^r Contain spill and collect, as appropriate. gTransfer to a chemical waste container for disposal in accordance with local regulations.						
	Up:		.9						
			0 (; 7						
				Handling and Stor	age				
			-	fume/gas/mist/vapours/spray.					
	in Han	dling:	Avoid prolonged or re						
			Keep away from sour	-	20				
7.0	D			neasures against static dischar	ge.				
7.2			 Keep away from heat Keep container tightly 	· •					
	in Stor	ing:		with information listed on the p	roduct insert				
	Other I	Precautions:	Hygroscopic.						
		Sec	tion 8. Exposu	re Controls/Persona	al Protection				
8.1	Exposu	ire Parameters:							
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe			
	NA	8(9)-EET		No data.	No data.	No data.			
64	-17-5	Ethyl alcohol		TWA: 1920 mg/m3 (1000 ppm)	TWA: 1900 mg/m3 (1000	No data.			
				STEL: ()	ppm)				
					STEL: 9500 mg/m3 (5000 ppm)				
CAS	#	Partial Chemical	Name	OSHA TWA		Other Limits			
	NA	8(9)-EET		No data.	No data.	No data.			
64	-17-5	Ethyl alcohol		PEL: 1000 ppm	TLV: 1000 ppm	No data.			
8.2		ure Controls:		ļ		1			
	-								
8.2.1	2.1 Engineering Controls		Use process enclosu	res. local exhaust ventilation. c	r other engineering control	s to control airborne			
8.2.1	-	-	•	res, local exhaust ventilation, c ended exposure limits.	r other engineering control	s to control airborne			
	(Ventil	ation etc.):	levels below recomm	res, local exhaust ventilation, c ended exposure limits.	or other engineering control	s to control airborne			
	(Ventil Persor	ation etc.): nal protection equi	levels below recomm		or other engineering control	s to control airborne			
	(Ventil Persor Eye Pr	ation etc.): nal protection equi otection:	levels below recomm pment: Safety glasses	ended exposure limits.	or other engineering control	s to control airborne			
	(Ventil Persor Eye Pr Protec	ation etc.): nal protection equi otection: tive Gloves:	levels below recomm pment: Safety glasses Compatible chemical	ended exposure limits.	or other engineering control	s to control airborne			
	(Ventili Persor Eye Pr Protec Other I	ation etc.): nal protection equi otection: tive Gloves: Protective Clothing	levels below recomm pment: Safety glasses Compatible chemical g:Lab coat	ended exposure limits. -resistant gloves	or other engineering control	s to control airborn			
	(Ventil Persor Eye Pr Protec Other I Respir	ation etc.): nal protection equi otection: tive Gloves: Protective Clothing atory Equipment	levels below recomm pment: Safety glasses Compatible chemical g:Lab coat	ended exposure limits.	or other engineering control	s to control airborn			
	(Ventil Persor Eye Pr Protec Other I Respir (Specif	ation etc.): nal protection equi otection: tive Gloves: Protective Clothing atory Equipment fy Type):	levels below recomm pment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res	ended exposure limits. -resistant gloves pirator, as conditions warrant.	or other engineering control	s to control airborn			
	(Ventil Persor Eye Pr Protec Other I Respir (Specif Work/H	ation etc.): nal protection equi otection: tive Gloves: Protective Clothing atory Equipment fy Type): lygienic/Maintena	levels below recomm pment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res n Do not take internally	ended exposure limits. -resistant gloves pirator, as conditions warrant.					
	(Ventil Persor Eye Pr Protec Other I Respir (Specif	ation etc.): nal protection equi otection: tive Gloves: Protective Clothing atory Equipment fy Type): lygienic/Maintena	levels below recomm pment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res n Do not take internally Facilities storing or ut	ended exposure limits. -resistant gloves pirator, as conditions warrant. ilizing this material should be e					
	(Ventil Persor Eye Pr Protec Other I Respir (Specif Work/H	ation etc.): nal protection equi otection: tive Gloves: Protective Clothing atory Equipment fy Type): lygienic/Maintena	levels below recomm pment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res n Do not take internally Facilities storing or ut Wash thoroughly after	ended exposure limits. -resistant gloves pirator, as conditions warrant. ilizing this material should be e					
	(Ventil Persor Eye Pr Protec Other I Respir (Specif Work/H	ation etc.): nal protection equi otection: tive Gloves: Protective Clothing atory Equipment fy Type): lygienic/Maintena	levels below recomm pment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res n Do not take internally Facilities storing or ut	ended exposure limits. -resistant gloves pirator, as conditions warrant. ilizing this material should be e					
	(Ventil Persor Eye Pr Protec Other I Respir (Specif Work/H	ation etc.): nal protection equi otection: tive Gloves: Protective Clothing atory Equipment fy Type): lygienic/Maintena	levels below recomm pment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res n Do not take internally Facilities storing or ut Wash thoroughly after	ended exposure limits. -resistant gloves pirator, as conditions warrant. ilizing this material should be e					
8.2.1	(Ventil Persor Eye Pr Protec Other I Respir (Specif Work/H	ation etc.): nal protection equi otection: tive Gloves: Protective Clothing atory Equipment fy Type): lygienic/Maintena	levels below recomm pment: Safety glasses Compatible chemical g:Lab coat NIOSH approved res n Do not take internally Facilities storing or ut Wash thoroughly after	ended exposure limits. -resistant gloves pirator, as conditions warrant. ilizing this material should be e					



	HENICAL	Supersedes Revision: 04/05/20				
	S	Section 9. Physical and Chemical Properties				
9.1	Information on Basic Physical and Chemical Properties					
	Physical States:	[]Gas [X]Liquid []Solid				
	Appearance and Odor:	Solution				
	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	or mm 43 MM_HG at 20.0 C				
	Hg):					
	Vapor Density (vs. Air = ²	1): No data.				
	Specific Gravity (Water =	= 1): No data.				
	Solubility in Water:	No data.				
	Autoignition Pt:	363.00 C				
0.2	Other Information					
9.2		No data				
	Percent Volatile:	No data.				
	Molecular Formula & We					
		Section 10. Stability and Reactivity				
10.1	Reactivity:	No data available.				
10.2	Stability:	Unstable [] Stable [X]				
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.				
	Polymerization:	Will occur [] Will not occur [X]				
10.4	Conditions To Avoid:	heat, flames and sparks				
10.5	Incompatibility - Material					
	To Avoid:	ammonia				
		peroxides				
		strong oxidizing agents				
10.6	Hazardous	carbon dioxide				
	Decomposition or	carbon monoxide				
	Byproducts:					
		Multi-region fo				



								upersedes Revis	ion: 04/05/2013
				on 11. Toxicolo	<u> </u>				
11.1		ion on gical Effects: Toxicological	Ethanol - To (rat): 7,060 (rabbit): 6,3 ppm (30m); (6h); Inhalat Ethanol - In Ethanol - In Only select See actual of	agical effects of this pro- poxicity Data: Oral TDL0 mg/kg; Oral LD50 (mc 00 mg/kg; Inhalation L Inhalation TCLO (hun tion LCLO (mouse): 29 itation Data: Eyes (rat vestigated as a mutag Registry of Toxic Effec- entry in RTECS for con-	D (man): 1.1 puse): 3,450 C50 (rat): 20 nan): 2,500 r 9,300 ppm (7 obit): 500 mg en, reproduc cts of Chemi mplete inforr	4 ml/kg; O mg/kg; Ora 0,000 ppm ng/m3 (20 7h); ((24h) mild ctive effect cal Substa	ral TDLO (r al LD50 (mo (10h); Inha m); Inhalati l; Skin (rab or, and tum	man): 650 mg/ł ouse): 10.5 ml/ lation TCLO (h on LC50 (rat): bit): 20 mg (24 lorigen.	kg; Oral LD50 uman): 1,800 5,900 mg/m3 n) moderate;
Carcii	nogenicity	:	Ethanol RTI NTP? No	ECS Number: KQ6300 IARC Monographs		SHA Regu	lated? No		
CAS	#	Hazardous Com	ponents (Ch	emical Name)	N	TP	IARC	ACGIH	OSHA
	NA	8(9)-EET			n.	a.	n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol			n.	a.	1	A4	n.a.
			Sect	ion 12. Ecolog	ical Info	rmatio	. <u> </u>	•	•
2.1	Toxicity:			se into the environmer					
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	nce and	No data ava	ilable.					
	Degrada	bility:							
12.3	Bioaccu		No data ava	ilable.					
	Potentia								
12.4	Mobility		No data ava						
12.5		of PBT and vPvB	No data ava	ailable.					
126	assessm		No doto ove	vilabla					
12.6		verse effects:	No data ava			dorotic			
				on 13. Disposa					
13.1	Waste Di	Isposal Method:	•	accordance with local,					
			Sec	tion 14. Trans	port Info	rmatio	n		
14.1		RANSPORT (US I	-						
	-	r Shipping Name:	•	cohol Solution					
	OT Hazaro		3	FLAMMABLE					
U	N/NA Num	iber:	1170		Packin	g Group:		II	
14.1	LAND T	RANSPORT (Euro	FLYMMOBILE 3 Oppean ADR/I						
Α		nipping Name:	-	cohol Solution					
	N Number		1170		Packin	g Group:		П	
н	azard Clas	SS:	3 - FLA	MMABLE LIQUID					
								Ν	Iulti-region for



Revision: 08/24/2015 Supersedes Revision: 04/05/2013

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Ethyl Alcohol Solution		
UN Number:	1170	Packing Group:	II
Hazard Class:	3 - FLAMMABLE LIQUID	IATA Classification:	3
Additional Transport	Transport in accordance with loca	l, state, and federal regulations.	
Information:	When sold in quantities of less that	an 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 exempt	tion, per IATA 2.6.10.
Therefore packaging does not have to be labeled as Dangerous Goods/Excepted			

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS) S. 304 RQ		S. 313 (TRI)	
NA	8(9)-EET		No	No	No	
64-17-5	Ethyl alcohol		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists		
NA	8(9)-EET		CAA HAP,ODC: PROP.65: No	No; CWA NPDES:	No; TSCA: No; CA	
64-17-5	Ethyl alcohol		CAA HAP,ODC: Inventory; CA P	No; CWA NPDES: ROP.65: No	No; TSCA: Yes -	
Regulatory Ir Statement:	formation	This SDS was prepared in according No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Informatio	on		
Revision Date	e:	08/24/2015				
Additional In This Product	formation About	No data available.				
Company Po	licy or Disclaimer:	DISCLAIMER: This information currently available to us. However express or implied, with respect use. Users should make their of their particular purposes.	ver, we make no wa t to such informatior	rranty of merchanta , and we assume n	bility or any other warrant o liability resulting from its	