

Revision: 04/30/2019 Supersedes Revision: 02/24/2015

	accordir	g to Regulation (EC) No. 1907/2006 as a	amended by (EC) No. 2015/8	330 and US OSHA HCS	2015				
	Section 1.	Identification of the Substar	nce/Mixture and of	the Company/U	ndertaking				
1.1	Product Code:	51651							
	Product Name:	(±)14,15-DHET							
	Synonyms:	(±)14,15-dihydroxy-5Z,82	Z,11Z-eicosatrienoic	acid; (±)14,15-Dil	HETrE;				
1.2	Relevant identified uses o	f the substance or mixture a	and uses advised a	gainst:					
	Relevant identified uses	For research use only, no	ot for human or veter	rinary use.					
1.3	Details of the Supplier of the 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 (73	4)971-3335				
1.4	Emergency telephone nur	nber:							
	Emergency Contact:	CHEMTREC Within USA		-	0)424-9300				
		CHEMTREC Outside US	SA and Canada:	+1 (70	3)527-3887				
		Section 2. Haz	zards Identific	cation					
2.1	Classification of the Subs	tance or Mixture:							
	Flammable Liquids, Cat	egory 2							
2.2	Label Elements:								
	GHS Signal Word:	Danger							
	GHS Hazard Phrases:								
	H225: Highly flammable liquid and vapor.								
	GHS Precaution Phrases:								
				_					
	P210: Keep away from {h	eat/sparks/open flames/hot su	•	•					
	P210: Keep away from {h P280: Wear {protective gl	eat/sparks/open flames/hot su oves/protective clothing/eye p	•	•					
	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases	eat/sparks/open flames/hot su oves/protective clothing/eye p :	rotection/face protec	tion}.	Pinse skin with				
	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases	eat/sparks/open flames/hot su oves/protective clothing/eye p	rotection/face protec	tion}.	. Rinse skin with				
	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases P303+361+353: IF ON Sk water/shower.	eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off	rotection/face protec	tion}.	. Rinse skin with				
	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases P303+361+353: IF ON Sk water/shower. GHS Storage and Dispo	eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off sal Phrases:	rotection/face protec	tion}. aminated clothing	. Rinse skin with				
2.3	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases P303+361+353: IF ON SH water/shower. GHS Storage and Dispo Please refer to Section 7 to	eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off sal Phrases: for Storage and Section 13 for	rotection/face protection/face protection/face protection/face protection	tion}. aminated clothing n.					
2.3	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases P303+361+353: IF ON Sh water/shower. GHS Storage and Dispo Please refer to Section 7 t Adverse Human Health	eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off sal Phrases: for Storage and Section 13 for Material may be irritating to t	rotection/face protect immediately all conta Disposal information he mucous membrai	tion}. aminated clothing n. nes and upper res					
2.3	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases P303+361+353: IF ON SH water/shower. GHS Storage and Dispo Please refer to Section 7 to	eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off sal Phrases: for Storage and Section 13 for	rotection/face protect immediately all conta r Disposal information he mucous membran n, ingestion, or skin a	tion}. aminated clothing n. nes and upper res bsorption.					
2.3	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases P303+361+353: IF ON Sh water/shower. GHS Storage and Dispo Please refer to Section 7 t Adverse Human Health	eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off sal Phrases: for 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 r Disposal information he mucous membran n, ingestion, or skin a piratory system irritati	tion}. aminated clothing n. nes and upper res bsorption. on.					
2.3	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases P303+361+353: IF ON Sk water/shower. GHS Storage and Dispo Please refer to Section 7 : Adverse Human Health Effects and Symptoms:	eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off sal Phrases: for 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	rotection/face protect immediately all conta r Disposal information he mucous membran h, ingestion, or skin a biratory system irritati e, the toxicological pr	tion}. aminated clothing n. nes and upper res bsorption. on. roperties have not	spiratory tract. t been thoroughly investigated.				
	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases P303+361+353: IF ON Sk water/shower. GHS Storage and Dispo Please refer to Section 7 f Adverse Human Health Effects and Symptoms:	eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off sal Phrases: for 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 ion 3. Composition	rotection/face protect immediately all conta poisposal information he mucous membran h, ingestion, or skin a piratory system irritati e, the toxicological pr h/Information	tion}. aminated clothing n. nes and upper res bsorption. on. roperties have not	spiratory tract. t been thoroughly investigated. <b>nts</b>				
CAS	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases P303+361+353: IF ON Sk water/shower. GHS Storage and Dispo Please refer to Section 7 f Adverse Human Health Effects and Symptoms:	eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off sal Phrases: for 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 ion 3. Composition onents (Chemical Name)/	rotection/face protect immediately all conta r Disposal information he mucous membran h, ingestion, or skin a biratory system irritati e, the toxicological pr	tion}. aminated clothing n. nes and upper res bsorption. on. roperties have not	spiratory tract. t been thoroughly investigated.				
CAS RTE	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases P303+361+353: IF ON Sk water/shower. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health Effects and Symptoms: Sect	eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off sal Phrases: for 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 ion 3. Composition onents (Chemical Name)/	rotection/face protect immediately all conta poisposal information the mucous membran or ingestion, or skin a piratory system irritati e, the toxicological pr in/Information	tion}. aminated clothing n. hes and upper res bsorption. on. on on Ingredie EC No./ EC Index No.	spiratory tract. t been thoroughly investigated. <b>nts</b> <b>GHS Classification</b>				
2.3 CAS RTE	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases P303+361+353: IF ON Sk water/shower. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health Effects and Symptoms: Sect # / Hazardous Comp REACH Registrat	eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off sal Phrases: for 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 ion 3. Composition onents (Chemical Name)/	rotection/face protect immediately all conta poisposal information he mucous membran h, ingestion, or skin a piratory system irritati e, the toxicological pr h/Information	tion}. aminated clothing n. nes and upper res bsorption. on. roperties have not On Ingredie EC No./	spiratory tract. t been thoroughly investigated. <b>nts</b>				
CAS RTE	P210: Keep away from {h P280: Wear {protective gl GHS Response Phrases P303+361+353: IF ON Sk water/shower. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health Effects and Symptoms: Sect # / Hazardous Comp REACH Registrat	eat/sparks/open flames/hot su oves/protective clothing/eye p : KIN (or hair): Remove/take off sal Phrases: for 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 ion 3. Composition onents (Chemical Name)/	rotection/face protect immediately all conta poisposal information the mucous membran or ingestion, or skin a piratory system irritati e, the toxicological pr in/Information	tion}. aminated clothing n. hes and upper res bsorption. on. roperties have not On Ingredie EC No./ EC Index No. NA	spiratory tract. t been thoroughly investigated. <b>nts</b> <b>GHS Classification</b>				

Multi-region format



Revision: 04/30/2019 Supersedes Revision: 02/24/2015

		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:	<b>d</b> 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:	g A solid water stream may be inefficient.					
5.2	Flammable Properties and Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.						
	Hazards:	Container explosion may occur under fire conditions.					
		Emits toxic fumes under fire conditions.					
		Sensitive to static discharge.					
		Vapors can travel to a source of ignition and flash back.					
		No data available.					
	Flash Pt:	14.00 C Method Used: Closed Cup					
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C					
	Autoignition Pt:	363.00 C					
5.3	Fire Fighting Instructions	S: 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.					
		<b>d</b> 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	Emergency Procedures:						
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.					
6.3		r Contain spill and collect, as appropriate. ngTransfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:						

Multi-region format



Page: 3 of 6

Revision: 04/30/2019 Supersedes Revision: 02/24/2015

	THEMICAL	Section 7 Ha	Indling and Storage	es Revision: 02/24/2015				
7.1	Precautions To Re Taken	Avoid breathing dust/fume/g						
	in Handling:	Avoid prolonged or repeated						
	in nanaling.	Keep away from sources of ignition.						
		Take precautionary measures against static discharge.						
7.2	Precautions To Be Taken	<b>an</b> Keep away from heat, sparks, and flame.						
	in Storing:	Keep container tightly close						
		Store in accordance with inf						
	Other Precautions:	Hygroscopic						
	Sect	tion 8. Exposure C	Controls/Personal Protection					
8.1	Exposure Parameters:							
CAS	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations				
64-17	7-5 Ethyl alcohol	ACGIH TLV	TLV: 1000 ppm					
	·	France VL	TWA: 1900 mg/m3 (1000 ppm)					
			STEL: 9500 mg/m3 (5000 ppm)					
		OSHA PELs	PEL: 1000 ppm					
		Britain EH40	TWA: 1920 mg/m3 (1000 ppm)					
8.2	Exposure Controls:		STEL: ()	I				
	-							
8.2.1	Engineering Controls	-	cal exhaust ventilation, or other engineering con	itrois to control airborn				
	(Ventilation etc.):	levels below recommended	exposure inflits.					
8.2.2	• • • •							
	Eye Protection:	Safety glasses	_					
	Protective Gloves:	Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat							
	<b>Respiratory Equipment</b> NIOSH approved respirator, as conditions warrant.							
	(Specify Type):							
		an Do not take internally.						
	ce Practices:		this material should be equipped with an eyewa	sh facility and a safety				
		shower.	11:n					
		Wash thoroughly after hand						
		No data available.						
	S	ection 9. Physical	and Chemical Properties					
9.1	Information on Basic Phys	sical and Chemical Properti	ies					
	Physical States:	[]Gas [X]Liq						
	Appearance and Odor:	A solution in ethanol	I					
	pH:	No data.						
	Melting Point:	No data.						
	Boiling Point:	No data.						
	Flash Pt:		Ised: Closed Cup					
	Evaporation Rate:	No data.						
	Flammability (solid, gas):	No data available.						
	Explosive Limits:		25.0 C UEL: 19.0% at 25.0 C					
	Vapor Pressure (vs. Air o	rmm 43 MM_HG at 20	0.0 C					
	Hg): Vapor Density (vs. Air = 1	): No data.						
	Tapor Density (VS. All = 1	. no uata.						
				Multi-region form				



Page: 4 of 6

	CHEMICAL						5	upersedes Revis	ion: 02/24/2015
	Specifi	ic Gravity (Water	= 1):	No data.					
	Solubi	lity in Water:		No data.					
	Octano	ol/Water Partition		No data.					
	Coeffic	cient:							
	Autoig	nition Pt:		363.00 C					
	Decom	position Tempera	ature:	No data.					
	Viscos	ity:		No data.					
9.2	Other I	nformation							
	Percen	t Volatile:		No data.					
	Molecu	ılar Formula & We	eight:	C20H34O4	338.5				
			S	Section 10.	. Stability	and Reacti	vity		
10.1	Reactiv	vity:	No da	ata available.					
10.2	Stabilit	ty:	Unsta	able [ ] Stat	ble [ X ]				
10.3	Stabilit	ty Note(s):	Stable	e if stored in acc	ordance with ir	nformation listed	on the product	insert.	
	Polym	erization:	Will o	occur [ ] Wil	ll not occur [ X	]			
10.4	Condit	ions To Avoid:	heat,	flames, and spa	ırks				
10.5	Incom	oatibility - Materia	<b>ls</b> alkali	metals					
	To Avo	oid:	ammonia						
	·			eroxides					
				rong oxidizing agents					
10.6	Hazard	lous	carbo	on dioxide					
	Decom	position or	carbo	on monoxide					
	Byproc	ducts:							
			S	ection 11.	Toxicolog	ical Informa	ation		
11.1	Information on The to		e toxicological effects of this product have not been thoroughly studied.						
	Toxico	J		nol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50					
				: 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50					
				bit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800					
				30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3					
				); Inhalation LCLO (mouse): 29,300 ppm (7h);					
				hanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;					
		c Toxicological							uctive effector,
	Effects:		and tumorigen.						
			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.						
				Ethanol RTECS Number: KQ6300000					
	ш	Userstans Ca						400111	00114
CAS			nponen	nts (Chemical Na	ame)	NTP	IARC	ACGIH	OSHA
	NA	(±)14,15-DHET				n.a.	n.a.	n.a.	n.a.
64	l-17-5	Ethyl alcohol				n.a.	1	A4	n.a.

Multi-region format



Revision: 04/30/2019 Supersedes Revision: 02/24/2015

Section 12. Ecological Information         12.1       Toxicity:       Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.         12.2       Persistence and Degradability:       No data available.         12.3       Bioaccumulative No data available.       No data available.         12.4       Mobility in Soil:       No data available.         12.5       Results of PBT and vPvB No data available.       assessment:         12.6       Other adverse effects:       No data available.         12.6       Other adverse effects:       No data available.         12.1       Waste Disposal Method:       Dispose in accordance with local, state, and federal regulations.         12.1       LAND TRANSPORT (US DOT): DOT Proper Shipping Name:       Ethyl alcohol solution DOT Hazard Class:       3         14.1       LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name:       Ethyl alcohol solution UN Number:       II         14.1       LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name:       Ethyl alcohol solution UN Number:       II         14.1       LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name:       Ethyl alcohol solution UN Number:       II         14.3       AIR TRANSPORT (CAO/IATA): ICAO/IATA Shipping Name:       Ethyl alcohol solution UN Number:       II         14.4
Runoff from fire control or dilution water may cause pollution.         12.2       Persistence and No data available.         Degradability:         12.3       Bioaccumulative No data available.         Potential:         12.4       Mobility in Solit: No data available.         12.5       Results of PBT and vPvB No data available.         12.6       Other adverse effects: No data available.         12.6       Other adverse effects: No data available.         13.1       Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.         13.1       Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.         14.1       LAND TRANSPORT (US DOT):         DOT Proper Shipping Name:       Ethyl alcohol solution         DOT Hazard Class:       3       FLAMMABLE LIQUID         UN/NA Number:       UN 1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       II TO<
2.2       Persistence and No data available.         Degradability:       Degradability:         2.3       Bioaccumulative No data available.         Potential:       No data available.         2.4       Mobility in Soli:       No data available.         2.5       Results of PBT and vPvB No data available.       assessment:         2.6       Other adverse effects:       No data available.         2.6       Other adverse effects:       No data available.         3.1       Waste Disposal Method:       Dispose in accordance with local, state, and federal regulations.         Section 13. Disposal Considerations         3.1       Waste Disposal Method:       Dispose in accordance with local, state, and federal regulations.         Dot Proper Shipping Name:       Ethyl alcohol solution         DOT Hazard Class:       3       FLAMMABLE LIQUID         UN/NA Number:       UN1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       II         Hazard Class:       3 - FLAMMABLE LIQUID       II         Hazard Class:       3 - FLAMMABLE LIQUID       II TO         Hazard Class:       3 - FLAMMABLE LIQUID       II TO         Hazard Class:       3 - FLAMMABLE LIQUID       II TA Classification:
Degradability:         2.3       Bioaccumulative       No data available.         Potential:
2.3       Bioaccumulative       No data available.         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         2.6       Other adverse effects:       No data available.         3.1       Waste Disposal Method:       Dispose in accordance with local, state, and federal regulations.         Section 14. Transport Information         III         Other adverse effects:       No data available.         Section 14. Transport Information         III Transport Information         III Transport Information         III To Packing Group:       II         OPT Proper Shipping Name:       Ethyl alcohol solution         DOT Proper Shipping Name:       Ethyl alcohol solution         UN/NA Number:       II         UN/NA Number:       II         ADR/RID         ADR/RID         ADR/RID         ADR/RID         Hation of class:         III         Hazard Class:
Potential:         2.4       Mobility in Soil:       No data available.         2.5       Results of PBT and vPvB       No data available.         assessment:
2.4 Mobility in Soli:       No data available.         2.5 Results of PBT and vPvB       No data available.         assessment:       2.6 Other adverse effects:       No data available.         2.6 Other adverse effects:       No data available.         3.1 Waste Disposal Method:       Dispose in accordance with local, state, and federal regulations.         Section 14. Transport Information         14.1 LAND TRANSPORT (US DOT):         DOT Proper Shipping Name:       Ethyl alcohol solution         DOT Proper Shipping Name:       Ethyl alcohol solution         DOT Hazard Class:       3         ADR/RID:         ADR/RID:         ADR/RID:         ADR/RID Shipping Name:       Ethyl alcohol solution         UN Number:       1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID         II Hazard Class:       3 - FLAMMABLE LIQUID         III Number:         II Number:
<ul> <li>2.5 Results of PBT and vPvB No data available. assessment: <ul> <li>2.6 Other adverse effects: No data available.</li> </ul> </li> <li>2.6 Other adverse effects: No data available.</li> <li>Section 13. Disposal Considerations <ul> <li>3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.</li> <li>Section 14. Transport Information</li> </ul> </li> <li>14.1 LAND TRANSPORT (US DOT): <ul> <li>DOT Proper Shipping Name: Ethyl alcohol solution</li> <li>DOT Hazard Class: 3 FLAMMABLE LIQUID</li> <li>UN/NA Number: UN1170 Packing Group: II</li> </ul> </li> <li>14.1 LAND TRANSPORT (European ADR/RID): <ul> <li>ADR/RID Shipping Name: Ethyl alcohol solution</li> <li>UN Number: 1170 Packing Group: II</li> <li>Hazard Class: 3 - FLAMMABLE LIQUID</li> </ul> </li> <li>14.3 AIR TRANSPORT (ICAO/IATA): <ul> <li>ICAO/IATA Shipping Name: Ethyl alcohol solution</li> <li>UN Number: 1170 Packing Group: II</li> <li>Hazard Class: 3 - FLAMMABLE LIQUID</li> <li>IATA Classification: 3</li> </ul> </li> <li>Additional Transport Information Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Cod</li> </ul>
Assessment: 2.6 Other adverse effects: No data available.  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.  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.  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.  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.  3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.  3.2 Weditional Transport Transport Information  3.3 FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Classification: 3  4.4 Class: 3 - FLAMMABLE LIQUID Infa Cla
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         I4.1       LAND TRANSPORT (US DOT):         DOT Proper Shipping Name:       Ethyl alcohol solution         DOT Hazard Class:       3       FLAMMABLE LIQUID         UN/NA Number:       UN1170       Packing Group:       II         ADR/RID Shipping Name:       Ethyl alcohol solution       UN Number:       II         ADR/RID Shipping Name:       Ethyl alcohol solution       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       IATA Classification:       3         ICAO/IATA Shipping Name:       Ethyl alcohol solution       II       II         UN Number:       1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       IATA Classification:       3         Moditional Trans
Section 13. Disposal Considerations         Section 14. Dispose in accordance with local, state, and federal regulations.         Section 14. Transport Information         14.1 LAND TRANSPORT (US DOT):         DOT Proper Shipping Name:       Ethyl alcohol solution         DOT Hazard Class:       3       FLAMMABLE LIQUID         UN/NA Number:       UN1170       Packing Group:       II         ADR/RID Shipping Name:         Ethyl alcohol solution         UN/NA Number:       UN1170       Packing Group:       II         ADR/RID Shipping Name:         Ethyl alcohol solution         UN Number:       1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       II         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 local, state, and federal regulations.       Moneticate of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Cod
3.1       Waste Disposal Method:       Dispose in accordance with local, state, and federal regulations.         Section 14. Transport Information         IA.1 LAND TRANSPORT (US DOT):         DOT Proper Shipping Name:       Ethyl alcohol solution         DOT Hazard Class:       3       FLAMMABLE LIQUID         UN/NA Number:       UN1170       Packing Group:       II         IA.1       LAND TRANSPORT (European ADR/RID):       ADR/RID Shipping Name:       Ethyl alcohol solution         UN Number:       1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       IATA Classification:       3         Additional Transport       Transport in accordance with local, state, and federal regulations.       II         Hazard Class:       3 - FLAMMABLE LIQUID       IATA Classification:       3         Additional Transport       Transport in accordance with local, state, and federal regulations.       II         Hazard Clas
Section 14. Transport Information         IA.1 LAND TRANSPORT (US DOT):         DOT Proper Shipping Name:       Ethyl alcohol solution         DOT Hazard Class:       3       FLAMMABLE LIQUID         UN/NA Number:       UN1170       Packing Group:       II         III       III       III       III         ADR/RID Shipping Name:       Ethyl alcohol solution       III         UN Number:       1170       Packing Group:       III         Hazard Class:       3 - FLAMMABLE LIQUID       Packing Group:       III         Hazard Class:       3 - FLAMMABLE LIQUID       Packing Group:       III         Hazard Class:       3 - FLAMMABLE LIQUID       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       IATA Classification:       3         Additional Transport       Transport in accordance with local, state, and federal regulations.       III         Modeling Irransport       Transport in accordance with local, state, and federal regulations.       III
14.1       LAND TRANSPORT (US DOT):         DOT Proper Shipping Name:       Ethyl alcohol solution         DOT Hazard Class:       3       FLAMMABLE LIQUID         UN/NA Number:       UN1170       Packing Group:       II         II         ADR/RID Shipping Name:       Ethyl alcohol solution         UN Number:       1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       II         Hazard Class:       3 - FLAMMABLE LIQUID       II         H4.3       AIR TRANSPORT (ICAO/IATA):       II         ICAO/IATA Shipping Name:       Ethyl alcohol solution       II         UN Number:       1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       III       III         Hazard Class:       3 - FLAMMABLE LIQUID       III       III         Hazard Class:       3 - FLAMMABLE LIQUID       IATA Classification:       3         Additional Transport       Transport in accordance with local, state, and federal regulations.       III         More sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Cod
DOT Proper Shipping Name:       Ethyl alcohol solution         DOT Hazard Class:       3       FLAMMABLE LIQUID         UN/NA Number:       UN1170       Packing Group:       II         VINA Number:       UN1170       Packing Group:       II         VINA Number:       UN170       Packing Group:       II         VINA Number:       UN170       Packing Group:       II         VINA Number:       1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       II         HA3       AIR TRANSPORT (ICAO/IATA):       If         ICAO/IATA Shipping Name:       Ethyl alcohol solution       II         UN Number:       1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       IATA Classification:       3         IMADICIAS:       3 - FLAMMABLE LIQUID       IATA Classification:       3         Additional Transport       Transport in accordance with local, state, and federal regulations.       II         More sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Cod       II
DOT Hazard Class:       3       FLAMMABLE LIQUID         UN/NA Number:       UN1170       Packing Group:       II         VINITO       Packing Group:       II         VINITO       Packing Group:       II         VINITO       Packing Group:       II         VINITO       VINITO       VINITO         VINITO       VINITO       VINITO <td< td=""></td<>
UN/NA Number:       UN170       Packing Group:       II         AMAIN I LAND TRANSPORT (Europear ADR/RID):         ADR/RID Shipping Name:       Ethyl alcohol solution         UN Number:       1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       II         IdA.3 AIR TRANSPORT (ICAO/IATA):       III       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
A DR/RID         ADR/RID Shipping Name:       Ethyl alcohol solution         UN Number:       1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       Hazard Class:       II         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 local, state, and federal regulations.       3         Modeling Transport       When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Cod
ADR/RID Shipping Name:Ethyl alcohol solutionUN Number:1170Packing Group:IIHazard Class:3 - FLAMMABLE LIQUIDI4.3 AIR TRANSPORT (ICAO/IATA):Ethyl alcohol solutionIIUN Number:1170Packing Group:IIICAO/IATA Shipping Name:Ethyl alcohol solutionIIUN Number:3 - FLAMMABLE LIQUIDIATA Classification:3Additional TransportTransport in accordance with local, state, and federal regulations.IIInformation:When sold in quantities of less than or equal to 1 mL, or 1 g, with an Except Quantity Code
Hazard Class:       3 - FLAMMABLE LIQUID         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 local, state, and federal regulations.       Information:       When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code
Hazard Class:       3 - FLAMMABLE LIQUID         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 local, state, and federal regulations.       Junch an Except Quantity Code         Information:       When sold in quantities of less than or equal to 1 mL, or 1 g, with an Except Quantity Code       Junch and Except Quantity Code
ICAO/IATA Shipping Name:       Ethyl alcohol solution         UN Number:       1170       Packing Group:       II         Hazard Class:       3 - FLAMMABLE LIQUID       IATA Classification:       3         Additional Transport       Transport in accordance with local, state, and federal regulations.       Unit of the sold in quantities of less than or equal to 1 mL, or 1 g, with an Except Quantity Code
UN Number:1170Packing Group:IIHazard Class:3 - FLAMMABLE LIQUIDIATA Classification:3Additional TransportTransport in accordance with local, state, and federal regulations.3Information:When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Cod
Hazard Class:3 - FLAMMABLE LIQUIDIATA Classification:3Additional TransportTransport in accordance with local, state, and federal regulations.3Information:When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code
Additional TransportTransport in accordance with local, state, and federal regulations.Information:When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Cod
nformation: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Cod
E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.
Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
Section 15. Regulatory Information
EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists
CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI)
NA         (±)14,15-DHET         No         No
64-17-5     Ethyl alcohol     No     No
CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists
NA (±)14,15-DHET 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 -
1
Multi-region



Page: 6 of 6

Revision: 04/30/2019 Supersedes Revision: 02/24/2015

Inventory; CA PROP.65: No							
egulatory Information       This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)         tatement:       No.1272/2008.							
Section 16. Other Information							
evision Date: 04/30/2019							
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.						