

64-17-5

KQ6300000

Ethyl alcohol

SAFETY DATA SHEET Ricinelaidic Acid

Page: 1 of 6

	acco	ding to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/200	18			
	Section 1. Ic	lentification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking			
.1 Product Code: 22470 Product Name: Ricinelaidic Acid Synonyms: 12(R)-hydroxy-9(E)-octadecenoic acid;								
.2	Relevant identified uses of Relevant identified uses:							
	Relevant identified uses: For research use only, not for human or veterinary use. Details of the Supplier of the Safety Data Sheet:							
.3	Company Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any					
	Web site address:	www.caymanchem.com						
	Information:	Cayman Chemical Comp	any	+1 (734	4)971-3335			
.4	Emergency telephone num Emergency Contact:	ber: CHEMTREC Within USA CHEMTREC Outside US		•	0)424-9300 3)527-3887			
		Section 2. Haz	zards Identific	ation				
	V							
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lig	Danger						
	GHS Hazard Phrases: H225: Highly flammable liq	uid and vapor.						
	GHS Hazard Phrases: H225: Highly flammable liq GHS Precaution Phrases: P210: Keep away from {hea	uid and vapor.		-				
	GHS Hazard Phrases: H225: Highly flammable liq GHS Precaution Phrases: P210: Keep away from {hea P280: Wear {protective glow GHS Response Phrases:	uid and vapor. at/sparks/open flames/hot su	otection/face protect	tion}.	. Rinse skin with			
	GHS Hazard Phrases: H225: Highly flammable liq GHS Precaution Phrases: P210: Keep away from {he: P280: Wear {protective glov GHS Response Phrases: P303+361+353: IF ON SKI	uid and vapor. at/sparks/open flames/hot surves/protective clothing/eye pr N (or hair): Remove/take off i	otection/face protect	tion}.	. Rinse skin with			
	 GHS Hazard Phrases: H225: Highly flammable liq GHS Precaution Phrases: P210: Keep away from {heat P280: Wear {protective glob GHS Response Phrases: P303+361+353: IF ON SKI water/shower. GHS Storage and Dispose Please refer to Section 7 for 	uid and vapor. at/sparks/open flames/hot surves/protective clothing/eye pr N (or hair): Remove/take off i al Phrases: r Storage and Section 13 for	otection/face protect	tion}. aminated clothing				
2.3	GHS Hazard Phrases: H225: Highly flammable liq GHS Precaution Phrases: P210: Keep away from {hea P280: Wear {protective glov GHS Response Phrases: P303+361+353: IF ON SKI water/shower. GHS Storage and Dispose Please refer to Section 7 for Adverse Human Health Effects and Symptoms:	uid and vapor. at/sparks/open flames/hot surves/protective clothing/eye pr N (or hair): Remove/take off i al Phrases: r Storage and Section 13 for Material may be irritating to the May be harmful by inhalation.	Disposal information ne mucous membran , ingestion, or skin al ratory system irritation	tion}. aminated clothing n. nes and upper res bsorption. on.				
2.3	GHS Hazard Phrases: H225: Highly flammable liq GHS Precaution Phrases: P210: Keep away from {hea P280: Wear {protective glov GHS Response Phrases: P303+361+353: IF ON SKI water/shower. GHS Storage and Dispose Please refer to Section 7 fo Adverse Human Health Effects and Symptoms:	uid and vapor. at/sparks/open flames/hot surves/protective clothing/eye pr N (or hair): Remove/take off i al Phrases: r Storage and Section 13 for Material may be irritating to th May be harmful by inhalation. May cause eye, skin, or respi To the best of our knowledge	Disposal information ne mucous membran , ingestion, or skin al ratory system irritation , the toxicological pro	tion}. aminated clothing n. nes and upper res osorption. on. operties have not	piratory tract. been thoroughly investigated			
CAS	GHS Hazard Phrases: H225: Highly flammable liq GHS Precaution Phrases: P210: Keep away from {hea P280: Wear {protective gloo GHS Response Phrases: P303+361+353: IF ON SKI water/shower. GHS Storage and Dispos Please refer to Section 7 fo Adverse Human Health Effects and Symptoms:	uid and vapor. at/sparks/open flames/hot surves/protective clothing/eye pr N (or hair): Remove/take off i al Phrases: r Storage and Section 13 for Material may be irritating to th May be harmful by inhalation. May cause eye, skin, or respi To the best of our knowledge on 3. Composition.	Disposal information ne mucous membran , ingestion, or skin al ratory system irritation , the toxicological pro	tion}. aminated clothing n. nes and upper res osorption. on. operties have not	piratory tract. been thoroughly investigated			
	GHS Hazard Phrases: H225: Highly flammable liq GHS Precaution Phrases: P210: Keep away from {hea P280: Wear {protective glor GHS Response Phrases: P303+361+353: IF ON SKI water/shower. GHS Storage and Dispose Please refer to Section 7 for Adverse Human Health Effects and Symptoms: Section	uid and vapor. at/sparks/open flames/hot surves/protective clothing/eye pr N (or hair): Remove/take off i al Phrases: r Storage and Section 13 for Material may be irritating to th May be harmful by inhalation. May cause eye, skin, or respi To the best of our knowledge on 3. Composition.	Disposal information mediately all conta Disposal information ne mucous membran , ingestion, or skin al ratory system irritation , the toxicological pro	aminated clothing aminated clothing n. bes and upper res bsorption. on. operties have not on Ingrediel EC No./	piratory tract. been thoroughly investigated			

95.0 %

200-578-6

603-002-00-5

Multi-region format

Flam. Liq. 2: H225



		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 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	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.					
		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 Precautions:	Take steps to avoid release into the environment, if safe to do so.					
6.3		r Contain spill and collect, as appropriate. IngTransfer to a chemical waste container for disposal in accordance with local regulations.					



		Section 7. Ha	ndling and Storage					
7.1	Precautions To Be Taken	n Avoid breathing dust/fume/gas/mist/vapours/spray.						
	in Handling:	Avoid prolonged or repeate	d exposure.					
		Keep away from sources of ignition.						
		Take precautionary measur	es against static discharge.					
7.2	Precautions To Be Taken	Keep away from heat, spark						
	in Storing:	Keep container tightly close						
			in accordance with information listed on the product insert.					
	Other Precautions:	Hygroscopic						
	Sect	ion 8. Exposure C	Controls/Personal Protection					
3.1	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: ()					
3.2	Exposure Controls:							
8.2.1	Engineering Controls	Use process enclosures, lo	cal exhaust ventilation, or other engineering cont	rols to control airborn				
	(Ventilation etc.):	levels below recommended	exposure limits.					
3.2.2	Personal protection equip	oment:						
	Eye Protection:	Safety glasses						
	Protective Gloves:	Compatible chemical-resista	ant gloves					
	Other Protective Clothing	:Lab coat						
	Respiratory Equipment (Specify Type):	NIOSH approved respirator, as conditions warrant.						
	Work/Hygienic/Maintenan	Do not take internally.						
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower						
		Wash thoroughly after handling.						
		No data available.						
	Se	ection 9. Physical	and Chemical Properties					
9.1	Information on Basic Phys	-						
	Physical States:	[]Gas [X]Liq						
	Appearance and Odor:	A solution in ethano	1					
	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. LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C						
	Explosive Limits:							
	Vapor Pressure (vs. Air o Hg):	mm 43 MM_HG at 2	0.0 0					
	Vapor Density (vs. Air = 1	: No data.						
				Multi-region for				

Revision: 02/23/2018

	HEMICAL Cuscifi	Crewity (Mater	4).	No data					
		Gravity (Water =	1):	No data.					
		ity in Water:		No data.					
		I/Water Partition		No data.					
	Coeffic								
	-	nition Pt:		363.00 C					
	-	position Temperat	ture:	No data.					
	Viscosi	ty:		No data.					
9.2	Other In	formation							
	Percent	t Volatile:		No data.					
	Molecu	lar Formula & Wei	ight:	C18H34O3	298.5				
			S	Section 10.	Stability and	Reactiv	vity		
10.1	Reactiv	ity:	No da	ta available.					
10.2	Stability	y:	Unsta	ble [] Stab	ole [X]				
10.3	Stability	y Note(s):	Stable	e if stored in acco	ordance with information	ation listed o	on the product	insert.	
	Polyme	rization:	Will o	ccur [] Will	not occur [X]				
10.4	Conditi	ons To Avoid:	heat, f	flames and sparl	ks				
10.5	Incomp	atibility - Materials	s alkali i	metals					
	To Avo	id:	ammonia						
			peroxi	ides					
			strong	oxidizing agent	S				
10.6	Hazard	ous	carbo	n dioxide					
	Decom	position or	carbo	n monoxide					
	Byprod	ucts:							
			Se	ection 11.	Foxicological	Informa	ation		
11.1	Information on Th			The toxicological effects of this product have not been thoroughly studied.					
	0			Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50					
			(rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50						
					Inhalation LC50 (rat				
			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); Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;						
									n) moderate;
		c Toxicological		•	as a mutagen, repr			•	
	Effects	:	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.						
				-	•	nformation.			
				ol RTECS Numb					
Carcir	nogenicit	:y:	NTP?		Ionographs? No	OSHA RE	gulated? No		
CAS	#	Hazardous Com	ponent	ts (Chemical Na	ame)	NTP	IARC	ACGIH	OSHA
)-12-5	Ricinelaidic Acid				n.a.	n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol				n.a.	1	A4	n.a.

Multi-region format



Page: 5 of 6

		Section 12. Ecolo	gical Informat	ion				
12.1 Toxicit	y:	Avoid release into the environm	ent.					
		Runoff from fire control or dilution	on water may cause p	ollution.				
12.2 Persist Degrad	ence and lability:	No data available.						
-	umulative	No data available.						
	y in Soil:	No data available.						
	s of PBT and vPvB No data available.							
assess								
12.6 Other a	dverse effects:	No data available.						
		Section 13. Dispos	sal Considerat	ions				
13.1 Waste	Disposal Method:	Dispose in accordance with loca	al, state, and federal r	egulations.				
		Section 14. Tran	sport Informat	ion				
14.1 LAND	TRANSPORT (US I	DOT):						
DOT Prop	er Shipping Name:	Ethyl Alcohol Solution						
DOT Haza		-	3 FLAMMABLE LIQUID					
UN/NA Nu	imber:	1170	Packing Grou	ıp:	II			
14.1 LAND	TRANSPORT (Euro	opean ADR/RID):						
ADR/RID Shipping Name:		Ethyl Alcohol Solution						
UN Numb	er:	1170Packing Group:II						
Hazard CI	ass:	3 - FLAMMABLE LIQUID						
	RANSPORT (ICAO/I	-						
	A Shipping Name:	Ethyl Alcohol Solution						
UN Number:		1170	Packing Group:					
Hazard Cl		3 - FLAMMABLE LIQUID IATA Classification: 3						
Additional Tra	ansport	Transport in accordance with lo When sold in quantities of less E1, E2, E4, or E5, this item me Therefore packaging does not h	than or equal to 1 mL ets the De Minimis Qເ	, or 1 g, with an Exce lantities exemption, p	per IATA 2.6.10.			
		Section 15. Regul	latory Information	tion				
EPA SARA (S	uperfund Amendm	ents and Reauthorization Act	of 1986) Lists					
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
540-12-5	Ricinelaidic Acid		No	No	No			
64-17-5	Ethyl alcohol No No							
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists				
540-12-5	Ricinelaidic Acid		CAA HAP,ODC: No 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 -			
					Multi-region forma			



	Inventory; CA PROP.65: No				
Regulatory InformationThis SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)Statement:No.1272/2008.					
	Section 16. Other Information				
Revision Date:	02/23/2018				
Additional Information About	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.				