

KQ6300000

01-2119457610-43

SAFETY DATA SHEET 13-epi-12-oxo Phytodienoic Acid

Revision: 07/31/2019 Supersedes Revision: 02/25/2015

	accordir	ng to Regulation (EC) No. 1907/2006 as a	amended by (EC) No. 2015/83	30 and US OSHA HCS	2015			
	Section 1.	Identification of the Substar	nce/Mixture and of t	he Company/Ur	ndertaking			
.1	Product Code:10195Product Name:13-epi-12-oxo Phytodienoic AcidSynonyms:4-oxo-5R-(2Z)-2-pentenyl-2-cyclopentene-1S-octanoic acid; 13-epi-12-oxo PDA;							
.2	Relevant identified uses o	f the substance or mixture a	and uses advised ag	ainst:				
	Relevant identified uses	: For research use only, n	ot for human or veteri	nary use.				
.3	Details of the Supplier of	he Safety Data Sheet:						
	Company Name: Web site address:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 www.caymanchem.com	bany					
	Information:	Cayman Chemical Comp	bany	+1 (734	4)971-3335			
.4	Emergency telephone nur		,	, , , , , , , , , , , , , , , , , , ,	,			
	Emergency Contact:	CHEMTREC Within USA CHEMTREC Outside US			D)424-9300 3)527-3887			
		Section 2. Ha	zards Identific	ation				
.1	Classification of the Subs							
	Flammable Liquids, Cat Label Elements:	egory z						
	GHS Signal Word: GHS Hazard Phrases:	Danger						
	H225: Highly flammable liquid and vapor.							
	GHS Precaution Phrases:							
	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking.							
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.							
	GHS Response Phrases:							
	P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.							
	GHS Storage and Disposal Phrases:							
		for Storage and Section 13 for	Disposal information					
2.3								
		To the best of our knowledge	e, the toxicological pro	operties have not	been thoroughly investigated			
	Sect	ion 3. Composition	/Information c	on Ingredier	nts			
CAS# RTEC	-	oonents (Chemical Name)/ ion No.	Concentration	EC No./ EC Index No.	GHS Classification			
71600 NA	6-07-0 13-epi-12-oxo Phyto	dienoic Acid	0.1 %	NA NA	No data available.			
64-	17-5 Ethyl alcohol		99.9 %	200-578-6	Flam. Liq. 2: H225			

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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 examine 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.				
.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.				
.2	Flammable Properties and Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.					
0.2	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.				
		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.				
		r Contain spill and collect, as appropriate.				

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		Section	7. Handling	and Storage				
7.1	Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.							
	in Handling:	Avoid prolonged c	or repeated exposure) .				
	Take precautionary measures against static discharge.							
7.2	Precautions To Be Taken	Keep away from h	eat, sparks, and flar	ne.				
	in Storing:	Keep container tightly closed.						
		Store in accordan	ce with information I	sted on the product in	nsert.			
	Other Precautions:	Hygroscopic						
	Secti	on 8. Expo	sure Controls	/Personal Pro	otection			
8.1	Exposure Parameters:							
CAS	# Chemical Name	Jurisdictio	on Rec	ommended Exposu	re Limits	Notations		
64-17	-5 Ethyl alcohol	ACGIH TL	V TLV:	1000 ppm				
		France VL		: 1900 mg/m3 (1000 pp _: 9500 mg/m3 (5000 pp	•			
		OSHA PEI		1000 ppm	(וות			
		Britain EH		: 1920 mg/m3 (1000 pp	m)			
			STE		,			
8.2	Exposure Controls:							
8.2.1	2.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airb					to control airborne		
(Ventilation etc.): levels below recommended exposure limits.								
8.2.2	Personal protection equip	Personal protection equipment:						
	Eye Protection:	Safety glasses						
	Protective Gloves: Compatible chemical-resistant gloves							
	Other Protective Clothing:Lab coat							
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.							
	(Specify Type):							
	Work/Hygienic/Maintenan Do not take internally.							
		•	•	al should be equippe	d with an eyewash ar	nd a safety shower.		
		Wash thoroughly	after handling.					
		No data available.						
	Se	ection 9. Ph	ysical and Cl	nemical Prope	erties			
9.1	Information on Basic Phys	ical and Chemica	I 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: Clos	ed Cup				
	Evaporation Rate:	No data.						
	Flammability (solid, gas):	No data av	ailable.					
	Explosive Limits:	LEL: 3.3	% at 25.0 C	UEL: 19.0%	at 25.0 C			
	Vapor Pressure (vs. Air or	mm 43 MM_H	IG at 20.0 C					
	Hg):							
	Vapor Density (vs. Air = 1)	: No data.						

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	Specific Gravity (Water =		= 1): N	No data.					
Solubility in Water:		N	No data.						
	Octanol/Water Partition		Ν	No data.					
	Coeffic	ient:							
	Autoigr	nition Pt:	3	363.00 C					
	-	position Tempera		No data.					
	Viscosi	-		No data.					
9.2		formation							
		Volatile:	Ν	No data.					
		lar Formula & We		C18H28O3 292.4					
			•	ection 10. Stability a	and Reacti	vitv			
10.1	Reactiv	ity.		available.		vity			
10.1	Stability	-	Unstable						
10.2	-	y. y Note(s):		stored in accordance with inf	ormation listed	on the produc	t insort		
10.5	-	rization:	Will occu		ormation listed		i moeri.		
10.4	-	ons To Avoid:							
10.4				mes, and sparks					
10.5	To Avoi	atibility - Materia	ammonia						
	TO AVO	id:	peroxide						
			•	strong oxidizing agents carbon dioxide					
10.6	Hazardo	ous	-						
10.0		osition or carbon monoxide							
	Byprod								
			Sec	tion 11. Toxicologi	cal Inform	ation			
	1	(i		<u> </u>			فرر والم		
11.1				e toxicological effects of this product have not been thoroughly studied. nanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50					
	ΙΟΧΙΟΟΙ	ogical Effects:		•	, .				
			(rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 (rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800						
				n (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3					
				Inhalation LCLO (mouse): 29,300 ppm (7h);					
				- Irritation Data: Eyes (rabbit)		mild; Skin (rab	bit): 20 mg (24	h) moderate;	
	Chronic Toxicological Effects:		Ethanol - Investigated as a drug, mutagen, natural product, primary irritant, reproductive effector, and tumorigen.						
			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
			See actu	ual entry in RTECS for compl	ete information.				
			Ethanol	RTECS Number: KQ630000)				
Carcinogenicity		y:	NTP? No	o IARC Monographs? N	OSHA R	egulated? No			
CAS #	#	Hazardous Cor	nponents	(Chemical Name)	NTP	IARC	ACGIH	OSHA	
71606-07-0		13-epi-12-oxo P	hytodienoi	c Acid	n.a.	n.a.	n.a.	n.a.	
64-17-5		5 Ethyl alcohol			n.a.	1	A4	n.a.	
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CHEMICAL		-			des Revision: 02/25/2015			
		Section 12. Ecolo	gical Informat	ion				
2.1 Toxicity								
		Runoff from fire control or dilution water may cause pollution.						
	ence and	No data available.						
Degrada	radability:							
	Imulative	No data available.						
Potentia								
2.4 Mobility	in Soil:	No data available.						
2.5 Results	of PBT and vPvB	No data available.						
assessn	nent:							
2.6 Other ad	ther adverse effects: No data available.							
		Section 13. Dispos	al Considerat	ions				
3.1 Waste D	isposal Method:	Dispose in accordance with loca	l, state, and federal r	egulations.				
		Section 14. Trans	sport Informat	ion				
	RANSPORT (US I	•						
-	er Shipping Name:	-						
DOT Hazar		3 FLAMMABI						
UN/NA Nur	nber:	UN1170	Packing Grou	ip:	II			
14.1 LAND T	RANSPORT (Euro	opean ADR/RID):						
ADR/RID S	hipping Name:	Ethyl Alcohol Solution						
UN Number:		1170	Packing Grou	ıp:	II			
Hazard Cla	ISS:	3 - FLAMMABLE LIQUID						
14.3 AIR TR	ANSPORT (ICAO/I	ATA):						
ICAO/IATA	Shipping Name:	Ethyl Alcohol Solution						
UN Number:		1170	Packing Grou	-	II			
Hazard Cla	SS:	3 - FLAMMABLE LIQUID	IATA Classifi	cation:	3			
Additional Tra	nsport	Transport in accordance with lo		•				
nformation:		When sold in quantities of less t	•	•				
		E1, E2, E4, or E5, this item mee						
		Therefore packaging does not h		-	xcepted Quantity.			
		Section 15. Regul		tion				
EPA SARA (Su CAS #	- -	ents and Reauthorization Act o	-	S. 304 RQ	S 212 /TDI			
71606-07-0	13-epi-12-oxo Ph	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
64-17-5	Ethyl alcohol		No	No	No			
CAS #	Hazardous Components (Chemical Name) Other US EPA or State Lists							
71606-07-0	13-epi-12-oxo Ph	· · · ·		o; CWA NPDES: No	; TSCA: No; CA			
64-17-5	Ethyl alcohol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -					
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	Inventory; CA PROP.65: No					
Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) Statement: No.1272/2008.						
	Section 16. Other Information					
Revision Date: 07/31/2019						
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.					