

KQ6300000

01-2119457610-43

# SAFETY DATA SHEET dinor-12-oxo Phytodienoic Acid

Revision: 11/12/2018 Supersedes Revision: 05/22/2013

2 CATMICK	according t	o Regulation (EC) No. 1907/2006 as a	mended by (EC) No. 2015/8		2015				
		entification of the Substar	<b>3</b> · · ·						
	ct Code: ct Name:	10710 dinor-12-oxo Phytodieno	ic Acid		; dinor-OPDA; dinor-12-oxo PD				
1.2 Releva	nt identified uses of t	he substance or mixture a	Ind uses advised ag	ainst:					
	ant identified uses:	For research use only, no	_	-					
1.3 Details	Details of the Supplier of the Safety Data Sheet:								
Com	pany Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any						
Web	site address:	www.caymanchem.com							
Infor	mation:	Cayman Chemical Comp	any	+1 (734	4)971-3335				
1.4 Emerge	ency telephone numb	er:							
Emer	gency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887				
		Section 2. Ha	zards Identific	ation					
2.1 Classif	ication of the Substa								
	mable Liquids, Categ								
	Elements:								
	Signal Word:	Danger							
••	GHS Hazard Phrases: H225: Highly flammable liquid and vapor.								
	•••								
	GHS Precaution Phrases: P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking.								
	P210. Reep away non (nearspans/open names/not surfaces) No shoking. P280: Wear {protective gloves/protective clothing/eye protection/face protection}.								
GHS	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 Disposa	l Phrases:							
Pleas	se refer to Section 7 for	Storage and Section 13 for	Disposal information	1.					
	s and Symptoms: N	Naterial may be irritating to th Nay be harmful by inhalation Nay cause eye, skin, or resp	, ingestion, or skin at	osorption.	piratory tract.				
				-	been thoroughly investigated.				
	Sectio	on 3. Composition	/information c	on Ingrediei	nts				
CAS # / RTECS #	Hazardous Compor REACH Registratio	nents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification				
197247-23-7 NA	dinor-12-oxo Phytodier	oic Acid	0.1 %	NA NA	No data available.				
64-17-5 KO6300000	Ethyl alcohol		99.9 %	200-578-6	Flam. Liq. 2: H225				

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603-002-00-5



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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 20 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 20 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.
4.2	Important Symptoms and	May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude
	Effects, Both Acute and	(weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.
	Delayed:	
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing	A solid water stream may be inefficient.
	Media:	
5.2	Flammable Properties an	dCan release vapors that form explosive mixtures at temperatures at or above the flashpoint.
	Hazards:	Container explosion may occur under fire conditions.
		Emits toxic fumes under fire conditions.
		Sensitive to static discharge.
		Vapors can travel to a source of ignition and flash back.
		No data available.
	Flash Pt:	14.00 C Method Used: Closed Cup
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C
	Autoignition Pt:	363.00 C
5.3	Fire Fighting Instructions	<b>s:</b> As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes. Note: Flammable as diluted in ethanol.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.
	Protective Equipment and	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
		r Contain spill and collect, as appropriate.
6.3		
6.3	Containment and Cleanin	ngTransfer to a chemical waste container for disposal in accordance with local regulations.
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		Section 7. H	andling and Storage					
7.1	Precautions To Be Taken in Handling:	<b>D Be Taken</b> Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition.						
7.2	Precautions To Be Taken in Storing: Other Precautions:	Take precautionary measures against static discharge. Keep away from heat, sparks, and flame. Keep container tightly closed. Store in accordance with information listed on the product insert. Hygroscopic						
	Sect	ion 8. Exposure	Controls/Personal Protection					
8.1	Exposure Parameters:							
CAS	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations				
64-17	-5 Ethyl alcohol	ACGIH TLV	TLV: 1000 ppm					
-		France VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)					
		OSHA PELs	PEL: 1000 ppm					
		Britain EH40	TWA: 1920 mg/m3 (1000 ppm) STEL: ()					
8.2	Exposure Controls:			I				
8.2.1 8.2.2	Engineering Controls (Ventilation etc.):	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.						
0.2.2	Personal protection equip Eye Protection:	Safety glasses						
	Protective Gloves:	Compatible chemical-resis	stant aloves					
	Other Protective Clothing							
	-	-						
	Work/Hygienic/Maintenan ce Practices:	<ul> <li>n Do not take internally.</li> <li>Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower Wash thoroughly after handling.</li> <li>No data available.</li> </ul>						
	Se	ection 9. Physica	I and Chemical Properties					
9.1	Information on Basic Phys	sical and Chemical Prope	rties					
	Physical States: Appearance and Odor: pH:	[ ] Gas [ X ] L A solution in ethan No data.						
	Melting Point:	No data.						
	Boiling Point:	No data.						
	Flash Pt:	14.00 C Method	Used: Closed Cup					
	Evaporation Rate:	No data.						
	Flammability (solid, gas):	No data available.						
	Explosive Limits:							
	Vapor Pressure (vs. Air or Hg):		20.0 C					
	Vapor Density (vs. Air = 1)	): No data.						

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		y in Water:	No c	lata.					
	Octanol			No data.					
		Water Partition	No c	data.					
	Coeffici	ent:							
	Autoign	ition Pt:	363.	00 C					
	Decomp	osition Tempera	ature: No c	lata.					
	Viscosit	у:	No c	lata.					
9.2	Other Inf	ormation							
	Percent	Volatile:	No c	lata.					
	Molecul	ar Formula & We	eight: C16	H24O3	264.4				
			Secti	ion 10	. Stability and	d Reactiv	vity		
10.1	Reactivi	ty:	No data ava		<b>,</b>				
10.2	•			] Sta	ible [ X ]				
10.3	Stability	Note(s):	Stable if sto	red in ac	cordance with inform	nation listed o	on the product	insert.	
	Polymer	ization:	Will occur [	] W	ill not occur [ X ]				
10.4	Conditio	ons To Avoid:	heat, flames	s, and spa	arks				
10.5	Incompa	atibility - Materia	als alkali metals	5					
	To Avoi	d:	ammonia						
			peroxides						
			strong oxidi	strong oxidizing agents					
10.6	Hazardo	ous	carbon dioxide						
	Decomp	carbon mon	carbon monoxide						
	Byprodu	icts:							
			Sectio	n 11.	Toxicologica	I Informa	ation		
11.1	Informat	tion on			ects of this product h			udied.	
	Toxicolo	ogical Effects:	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						
			(rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800						
			ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3						
			(6h); Inhalation LCLO (mouse): 29,300 ppm (7h);						
		Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;							
Chronic Toxicological			Ethanol - Investigated as adrug, mutagen, natural product, primary irritant, reproductive effector,						
Effects:		and tumorigen. Only select Registry of Toyic Effects of Chemical Substances (RTECS) data is presented here							
			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						
Carcin	ogenicity	<b>/:</b>	NTP? No		Monographs? No	OSHA Re	gulated? No		
CAS # Hazardous Con					NTP		ACGIH	OSHA	
	47-23-7	dinor-12-oxo Ph				n.a.	n.a.	n.a.	n.a.
	-17-5			n.a.	1	A4	n.a.		
	-	,					<b>ļ</b>	<b> </b>	

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			Section 12. Ecolo	gical Informat	ion				
<b>12.1</b> Toxicity:         Avoid release into the environment.									
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	nce and No data available.							
	Degrada	ility:							
12.3		umulative No data available.							
	Potentia								
12.4	Mobility		No data available.						
12.5	Results assessn		No data available.						
12.6	Other ac	lverse effects:	No data available.						
			Section 13. Dispos	al Considerat	ions				
13.1	Waste D	isposal Method:	Dispose in accordance with loca	al, state, and federal r	egulations.				
			Section 14. Tran	sport Informat	tion				
14.1	LAND T	RANSPORT (US I	DOT):						
D	OT Prope	r Shipping Name	Ethyl Alcohol Solution						
D	OT Hazar	d Class:	3 FLAMMAB	LE LIQUID					
U	N/NA Nur	nber:	UN1170	Packing Grou	ıp:	II			
14.1		RANSPORT (Euro	opean ADR/RID):						
ADR/RID Shipping Name:			Ethyl Alcohol Solution						
UN Number:			1170	Packing Group: II					
	azard Cla		3 - FLAMMABLE LIQUID						
14.3		ANSPORT (ICAO/I	•						
	ICAO/IATA Shipping Name:		Ethyl Alcohol Solution 1170	Packing Grou	<b>ID</b> :	II			
UN Number: Hazard Class:			3 - FLAMMABLE LIQUID	Packing Group: IATA Classification:		3			
	Additional Transport       Transport in accordance with local, state, and federal regulations.       3								
	Information:       When sold in quantities of less than 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 exemption, per IATA 2.6.10.         Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.								
			Section 15. Regul	atory Informa	tion				
EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists									
CAS #			ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
	47-23-7	dinor-12-oxo Phy	todienoic Acid	No	No	No			
64-	-17-5	Ethyl alcohol		No	No	No			
CAS #	ŧ	Hazardous Com	ponents (Chemical Name)	Other US EPA or S					
19724	47-23-7	dinor-12-oxo Phy	todienoic Acid	CAA HAP,ODC: N PROP.65: No	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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CHIMICAL	Supersedes Revision: 05/22/2013			
	Inventory; CA PROP.65: No			
Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.			
	Section 16. Other Information			
Revision Date:	11/12/2018			
Additional Information A	bout No data available.			
This Product:				
Company Policy or Discl	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.			