

Revision: 10/13/2018

Page: 1 of 5

		Identification of the Substance/Mixture and of th	e Company/Underlakind				
.1	Product Code:	25665					
. '	Product Name:	Oridonin					
	Synonyms:	7,20-epoxy-1.alpha.,6.beta.,7.alpha.,14R-tetrah	vdroxy-kaur-16-en-15-one: NSC 250682				
.2		of the substance or mixture and uses advised aga					
.2	Relevant identified uses	•					
	······································						
.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				
1.4	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 Identifica	ation				
2.1	Classification of the Subs						
	Carcinogenicity Catego	nrv 2					
2.2	Carcinogenicity, Catego Label Elements:	ory 2					
2.2		ory 2 Warning					
2.2	Label Elements:	Warning					
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases:	Warning					
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H351: Suspected of cause	Warning ing cancer. s:					
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H351: Suspected of cause GHS Precaution Phrases P201: Obtain special inst P202: Do not handle until	Warning ing cancer. s: ructions before use. all safety precautions have been read and understo					
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H351: Suspected of cause GHS Precaution Phrase P201: Obtain special inst P202: Do not handle until P280: Wear {protective g	Warning ing cancer. s: ructions before use. all safety precautions have been read and understoo loves/protective clothing/eye protection/face protectio					
2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H351: Suspected of cause GHS Precaution Phrases P201: Obtain special inst P202: Do not handle until P280: Wear {protective g GHS Response Phrases	Warning ing cancer. s: ructions before use. all safety precautions have been read and understor loves/protective clothing/eye protection/face protectio					
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2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H351: Suspected of cause GHS Precaution Phrases P201: Obtain special inst P202: Do not handle until P280: Wear {protective g GHS Response Phrases P308+313: IF exposed of GHS Storage and Dispon	Warning ing cancer. s: ructions before use. all safety precautions have been read and understor loves/protective clothing/eye protection/face protection s: concerned: Get medical attention/advice.	on}.				
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2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H351: Suspected of cause GHS Precaution Phrases P201: Obtain special inst P202: Do not handle until P280: Wear {protective g GHS Response Phrases P308+313: IF exposed of GHS Storage and Dispon Please refer to Section 7 Adverse Human Health	Warning ing cancer. s: ructions before use. all safety precautions have been read and understor loves/protective clothing/eye protection/face protection loves/protective clothing/eye protection/face protection concerned: Get medical attention/advice. sal Phrases: for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane	on}. es and upper respiratory tract.				
	Label Elements: GHS Signal Word: GHS Hazard Phrases: H351: Suspected of cause GHS Precaution Phrases P201: Obtain special inst P202: Do not handle until P280: Wear {protective g GHS Response Phrases P308+313: IF exposed on GHS Storage and Dispon Please refer to Section 7	Warning ing cancer. s: ructions before use. all safety precautions have been read and understor loves/protective clothing/eye protection/face protection concerned: Get medical attention/advice. sal Phrases: for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin abs	on}. es and upper respiratory tract. sorption.				
	Label Elements: GHS Signal Word: GHS Hazard Phrases: H351: Suspected of cause GHS Precaution Phrases P201: Obtain special inst P202: Do not handle until P280: Wear {protective g GHS Response Phrases P308+313: IF exposed of GHS Storage and Dispon Please refer to Section 7 Adverse Human Health	Warning ing cancer. s: ructions before use. all safety precautions have been read and understor loves/protective clothing/eye protection/face protection loves/protective clothing/eye protection/face protection concerned: Get medical attention/advice. sal Phrases: for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin abs May cause eye, skin, or respiratory system irritation	on}. es and upper respiratory tract. sorption.				
	Label Elements: GHS Signal Word: GHS Hazard Phrases: H351: Suspected of cause GHS Precaution Phrases P201: Obtain special inst P202: Do not handle until P280: Wear {protective g GHS Response Phrases P308+313: IF exposed of GHS Storage and Dispon Please refer to Section 7 Adverse Human Health	Warning ing cancer. s: ructions before use. all safety precautions have been read and understor loves/protective clothing/eye protection/face protection concerned: Get medical attention/advice. sal Phrases: for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin abs	on}. es and upper respiratory tract. sorption. n.				



# SAFETY DATA SHEET Oridonin

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2895 NZ817		Hazardous Components (Chemical N REACH Registration No.		/ Concentration	EC No./ EC Index No.	GHS Classification		
		ridonin		100.0 %	631-100-8 NA	Carcinogen 2: H351		
	Į		Section 4. Fi	rst Aid Meas		ł		
4.1	Descriptio	on of First Aid						
<b>+</b> . I	Measures							
	In Case of	f Inhalation:	Remove to fresh air. If not brock		al respiration or gi	ve oxygen by trained personnel		
	In Case of	ase of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contan clothing. Get medical attention if symptoms occur. Wash clothing before reuse.						
	In Case of	<ul> <li>ase 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.</li> <li>ase 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.</li> </ul>						
	In Case of							
			Section 5. Fire	Fighting Me	asures			
• •		Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-o		-	l spray.		
		e Extinguishing	A solid water stream may be					
5.2	Flammable Properties andNo data available. Hazards:							
			No data available.					
	Flash Pt:		No data.					
	Explosive		LEL: No data.	UEL: No c	lata.			
Autoignition Pt: No data.								
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.							
			Section 6. Accider	ntal Release	Measures			
6.1	Protective	e Precautions,	Avoid breathing vapors and	provide adequate v	entilation.			
	Protective	e Equipment and	As conditions warrant, wear	a NIOSH approved	I self-contained bre	eathing apparatus, or respirator		
	Emergend	cy Procedures:	and appropriate personal pr	otection (rubber boo	ots, safety goggles	s, and heavy rubber gloves).		
6.2	2       Environmental       Take steps to avoid release into the environment, if safe to do so.         Precautions:       Precautions:							
6.3 Methods and Material For Contain spill and collect, as appropriate Containment and CleaningTransfer to a chemical waste container Up:								
			Section 7. Har	ndling and St	torage			
7.1	Precautio	ns To Be Taken	Avoid breathing dust/fume/ga	•	•			
	in Handlir		Avoid prolonged or repeated					
7.2		-	Keep container tightly closed	1.				
	in Storing	in Storing: Store in accordance with information listed on the product insert.						



		on 8. Exposure Controls/Personal Protection					
3.1	Exposure Parameters:						
8.2	Exposure Controls:						
8.2.1		se process enclosures, local exhaust ventilation, or other engineering controls to control airborn					
		s below recommended exposure limits.					
3.2.2	Personal protection equipm						
	•	afety glasses					
		ompatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	<b>Respiratory Equipment</b> NIOSH approved respirator, as conditions warrant.						
	(Specify Type):						
	Work/Hygienic/Maintenan D						
		acilities storing or utilizing this material should be equipped with an eyewash and a safety showe					
		h thoroughly after handling.					
	N	o data available.					
	Sec	ction 9. Physical and Chemical Properties					
).1	Information on Basic Physic	al and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A crystalline solid					
	pH:	No data.					
	Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data.					
	Evaporation Rate:	No data.					
	Flammability (solid, gas):	No data available.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Vapor Pressure (vs. Air or n	nm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1)	No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~0.1 mg/ml in a 1:9 solution of DMSO:PBS (pH 7.2); ~20 mg/ml in EtOH; ~30 mg/ml in DMSO & DMF;					
	Octanol/Water Partition Coefficient:	No data.					
	Autoignition Pt:	No data.					
	Decomposition Temperature	e: No data.					
	Viscosity:	No data.					



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To Avoid: Hazardous Decomposition or Byproducts: Information on Toxicological Effects: Chronic Toxicological Effects: ogenicity: Mazardous Ca 7-04-2 Oridonin Toxicity: Persistence and Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vP	Section 10. Stab         No data available.         Unstable []       Stable [X]         Stable if stored in accordance         Will occur []       Will not occ         d:       No data available.         aterials       strong oxidizing agents         carbon dioxide       carbon monoxide         Section 11. Toxic         The toxicological effects of this         ts:       Oridonin - Toxicity Data: Intra         cal       Oridonin - Investigated as a d         Only select Registry of Toxic	bility and ] ce with information occur [ X ] <b>COLOGICAL</b> this product have raperitoneal LD drug, mutager c Effects of Che for complete in NZ8177000	Informa Ive not been 050 (mouse) n, and natura iemical Subs	n the product tion thoroughly stu : 35 mg/kg; al product.	udied.					
Molecular Formula & V Reactivity: Stability: Stability	& Weight: C20H28O6 364.4 Section 10. Stable No data available. Unstable [] Stable [X] Stable if stored in accordance Will occur [] Will not occ d: No data available. Interials strong oxidizing agents carbon dioxide carbon monoxide Carbon dioxide carbon monoxide Section 11. Toxici The toxicological effects of this ts: Oridonin - Toxicity Data: Intra cal Oridonin - Investigated as a d Only select Registry of Toxic See actual entry in RTECS for Oridonin RTECS Number: NZ NTP? No IARC Monogra s Components (Chemical Name) Section 12. Ecco Avoid release into the environ Runoff from fire control or dilu No data available.	bility and ] ce with information occur [ X ] <b>COLOGICAL</b> this product have raperitoneal LD drug, mutager c Effects of Che for complete in NZ8177000	Informa Ive not been 050 (mouse) n, and natura iemical Subs	n the product tion thoroughly stu : 35 mg/kg; al product.	udied.					
Reactivity: Stability: Stability Note(s): Polymerization: Conditions To Avoid: Incompatibility - Mater To Avoid: Hazardous Decomposition or Byproducts: Information on Toxicological Effects: Chronic Toxicological Effects: ogenicity: Mazardous Co 7-04-2 Oridonin Toxicity: Persistence and Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vP	Section 10. Stab         No data available.         Unstable []       Stable if stored in accordance         Will occur []       Will not occ         d: No data available.         attriate strong oxidizing agents         carbon dioxide         carbon dioxide         carbon dioxide         carbon monoxide         Dection 11. Toxic         Mill not occ         Acarbon dioxide         carbon dioxide         carbon nonoxide         Dection 11. Toxic         Carbon nonoxide         The toxicological effects of this         The toxicological effects of this         Coridonin - Toxicity Data: Intra         Colspan="2">Coridonin - Toxicity Data: Intra         Colspan="2">Coridonin RTECS Number: NZ         NTP? No         IARC Monogra         S Components (Chemical Name)         Section 12. Ecco         Avoid release into the environ         Runoff from fire control or dilu         No data available.	bility and ] ce with information occur [ X ] <b>COLOGICAL</b> this product have raperitoneal LD drug, mutager c Effects of Che for complete in NZ8177000	Informa Ive not been 050 (mouse) n, and natura iemical Subs	n the product tion thoroughly stu : 35 mg/kg; al product.	udied.					
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7-04-2 Oridonin Toxicity: Persistence and Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vP	Section 12. Eco Avoid release into the environ Runoff from fire control or dilu No data available.		OSHA Reg	gulated? No						
Toxicity: Persistence and Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vP	Avoid release into the environ Runoff from fire control or dilu No data available.		NTP	IARC	ACGIH	OSHA				
Persistence and Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vP	Avoid release into the environ Runoff from fire control or dilu No data available.		n.a.	n.a.	n.a.	n.a.				
Persistence and Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vP	Runoff from fire control or dilu No data available.	ological Ir	nformati	on						
Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vP	No data available.	onment.								
Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vP		ilution water ma	ay cause po	llution.						
Bioaccumulative Potential: Mobility in Soil: Results of PBT and vP	No data available.									
Potential: Mobility in Soil: Results of PBT and vP	No data available.									
Mobility in Soil: Results of PBT and vP										
Results of PBT and vP										
	Mobility in Soil: No data available.									
· · · · · · · · · ·	5 Results of PBT and vPvB No data available.									
assessment:										
Other adverse effects:	ts: No data available.									
	PBT and t:	<b>PBT and vPvB</b> No data available. t:	PBT and vPvB No data available. t:	PBT and vPvB No data available. t:	PBT and vPvB No data available. t:	PBT and vPvB No data available. t:				



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		Section 13. Dispos	al Considera	ations		
13.1 Waste I	sposal Method: Dispose in accordance with local, state, and federal regulations.					
		Section 14. Tran	sport Informa	ation		
14.1 LAND 1	RANSPORT (US	DOT):				
DOT Prope	er Shipping Name	Not dangerous goods.				
DOT Hazaı						
	RANSPORT (Eur hipping Name:	Not dangerous goods.				
UN Numbe		Not dangerede geode.				
Hazard Cla	ISS:					
14.3 AIR TR	ANSPORT (ICAO/	IATA):				
ICAO/IATA	Shipping Name:	Not dangerous goods.				
Additional Tra	nsport	Transport in accordance with lo	cal, state, and fede	ral regulations.		
Information:						
		Section 15. Regul		ation		
EPA SARA (Su CAS #	-	nents and Reauthorization Act on the second se	of 1986) Lists S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
28957-04-2	Oridonin	ponents (chemical Name)	No	No	No	
CAS #		ponents (Chemical Name)	Other US EPA o	-		
28957-04-2	Oridonin	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		Section 16. Oth	ner Informatio	on		
Revision Date:		10/13/2018				
Additional Information About		No data available.				
This Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howev express or implied, with respect use. Users should make their o their particular purposes.	er, we make no wa to such informatior	rranty of merchanta , and we assume n	bility or any other warranty, to liability resulting from its	

Multi-region format