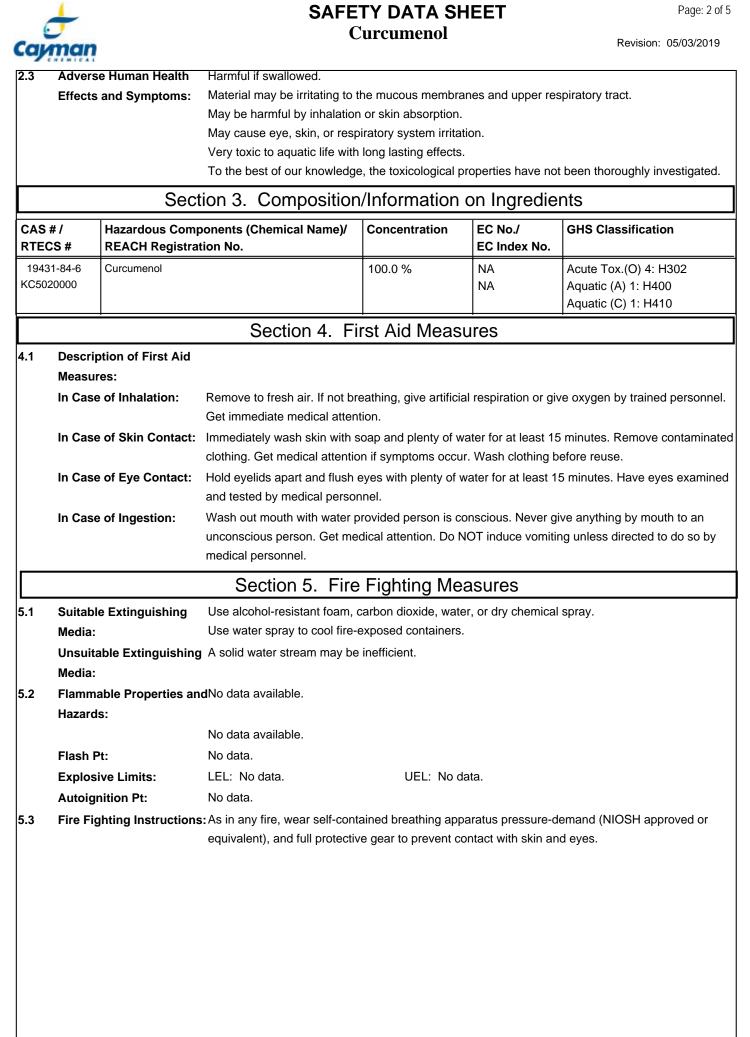


SAFETY DATA SHEET Curcumenol

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	° °	p Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/8					
	Section 1. Ide	entification of the Substance/Mixture and of t	he Company/Undertaking				
.1	Product Code:	26715					
	Product Name:	Curcumenol					
	Synonyms:	(3S,3aS,6R,8aS)-1,2,3,4,5,8a-hexahydro-3,8-	dimethyl-5-(1-methylethylidene)-6H-3a,6-epoxy				
		ulen-6-ol; (+)-Curcumenol;					
.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant identified uses:	For research use only, not for human or veteri	inary use.				
1.3	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				
.4	Emergency telephone numb	er:					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
	Aquatic Toxicity (Acute), (
	Aquatic Toxicity (Chronic)	, Category 1					
	GHS Signal Word:	Warning					
	GHS Hazard Phrases:						
	H302: Harmful if swallowed.						
	H400: Very toxic to aquatic						
	H410: Very toxic to aquatic life with long lasting effects.						
	GHS Precaution Phrases:						
	P264: Wash {hands} thoroughly after handling.						
	P273: Avoid release to the environment.						
	GHS Response Phrases:						
	P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.						
	P330: Rinse mouth.						
	P330: Rinse mouth.						
	P330: Rinse mouth. P391: Collect spillage.						
		l Phrases:					
	P391: Collect spillage. GHS Storage and Disposa	I Phrases: Storage and Section 13 for Disposal information	ı.				
	P391: Collect spillage. GHS Storage and Disposa		۱.				
	P391: Collect spillage. GHS Storage and Disposa		۱.				
	P391: Collect spillage. GHS Storage and Disposa		۱.				





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		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment and	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:	
6.3	Methods and Material For	Contain spill and collect, as appropriate.
	Containment and Cleaning	Transfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Secti	on 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne
	(Ventilation etc.):	evels below recommended exposure limits.
8.2.2	Personal protection equip	nent:
	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.
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
		Wash thoroughly after handling.
		No data available.
	Se	ction 9. Physical and Chemical Properties
9.1	Information on Basic Physi	cal 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	mm No data.
	Hg): Vapor Dopsity (vs. Air – 1):	No data
	Vapor Density (vs. Air = 1):	No data.
		Multi-region forma

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	=	Gravity (Water =	-				
	Solubilit	y in Water:	No data.				
	Solubilit	y Notes:	~0.3 mg/ml in PBS (pH 7.2); ~3	3 mg/ml in EtOH	l; ~5 mg/ml in	DMSO; ~10 m	g/ml in DMF;
	Octanol/	Water Partition	No data.				
	Coefficie	ent:					
	Autoigni	tion Pt:	No data.				
	-	osition Temperat	ure: No data.				
	Viscosity	-	No data.				
9.2	Other Inf						
5.2	Percent						
			No data.				
	wolecula	ar Formula & Weig	ght: C15H22O2 234.3				
			Section 10. Stability a	nd Reactiv	/ity		
10.1	Reactivit	y:	No data available.				
10.2	Stability	:	Unstable [] Stable [X]				
10.3	Stability	Note(s):	Stable if stored in accordance with info	ormation listed o	n the product	insert.	
	Polymer	ization:	Will occur [] Will not occur [X]				
10.4	Conditio	ns To Avoid:	No data available.				
10.5		tibility - Materials	strong acids				
	To Avoid	-	strong bases				
			strong oxidizing agents				
			strong reducing agents				
10.6	Hazardo	lie	No data available.				
10.0		osition or	No data avaliable.				
	Byprodu	cis.					
			Section 11. Toxicologic	al Informa	ition		
11.1	Informat	ion on	The toxicological effects of this produc	t have not been	thoroughly st	udied.	
	Toxicolo	gical Effects:	Curcumenol - Toxicity Data: Intraperito	oneal LD50 (mo	use): 250 mg/	kg; Oral TDLO	(mouse): 12.5
			mg/kg;				
	Chronic	Toxicological	Only select Registry of Toxic Effects of	of Chemical Sub	stances (RTE	CS) data is pre	esented here.
	Effects:		See actual entry in RTECS for comple	te information.			
			Curcumenol RTECS Number: KC5020	000			
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
1943	31-84-6	Curcumenol		n.a.	n.a.	n.a.	n.a.
			Castian 12 Faclarian				
			Section 12. Ecologica	I momali	on		
12.1	Toxicity:		Avoid release into the environment.				
			Runoff from fire control or dilution wate	er may cause po	ollution.		
12.2	Persiste	nce and	No data available.				
	Degrada	bility:					
12.3	Bioaccu	mulative	No data available.				
	Potentia	l:					
12.4	Mobility	in Soil:	No data available.				
12.5	-		No data available.				
	assessm						
10.0							
12.6	Uther ad	verse effects:	No data available.				
1						N	Iulti-region format



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			ol Considerat	ione	
		Section 13. Dispos	sal Considerat	10115	
13.1 Waste D	isposal Method:	Dispose in accordance with loc	al, state, and federal r	egulations.	
		Section 14. Tran	sport Informat	ion	
14.1 LAND 1	RANSPORT (US	DOT):			
DOT Prope	er Shipping Name	Not dangerous goods.			
DOT Hazar	d Class:				
UN/NA Nur	nber:				
14.1 LAND T	RANSPORT (Euro	opean ADR/RID):			
ADR/RID S	hipping Name:	Environmentally hazardous	substance, solid, n.o	.s. (Curcumenol)	
UN Numbe	r:	3077	Packing Grou	ıp:	III
Hazard Cla	ISS:	9 - CLASS 9			
14.3 AIR TR	ANSPORT (ICAO/	ATA):			
ICAO/IATA	Shipping Name:	Environmentally hazardous	substance, solid, n.o	.s. (Curcumenol)	
UN Numbe	r:	3077	Packing Grou	ıp:	III
Hazard Cla	ISS:	9 - CLASS 9	IATA Classifi	cation:	9
Additional Tra	nsport	Transport in accordance with lo	ocal, state, and federa	l regulations.	
		When sold in quantities of less	than or equal to 1 mL	-	
information:		-			
Information:		E1, E2, E4, or E5, this item me			
Information:		-			
Information:		E1, E2, E4, or E5, this item me	have to be labeled as	Dangerous Goods/E	
	perfund Amendm	E1, E2, E4, or E5, this item me Therefore packaging does not	have to be labeled as latory Informat	Dangerous Goods/E	
	1	E1, E2, E4, or E5, this item me Therefore packaging does not Section 15. Regu	have to be labeled as latory Informat	Dangerous Goods/E	
EPA SARA (Su	1	E1, E2, E4, or E5, this item me Therefore packaging does not Section 15. Regu	have to be labeled as latory Informat of 1986) Lists	Dangerous Goods/E	xcepted Quantity.
EPA SARA (Su CAS #	Hazardous Com Curcumenol	E1, E2, E4, or E5, this item me Therefore packaging does not Section 15. Regu	have to be labeled as latory Informat of 1986) Lists S. 302 (EHS)	Dangerous Goods/E tion S. 304 RQ No	xcepted Quantity. S. 313 (TRI)
EPA SARA (Su CAS # 19431-84-6	Hazardous Com Curcumenol	E1, E2, E4, or E5, this item me Therefore packaging does not Section 15. Regu tents and Reauthorization Act ponents (Chemical Name)	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S	Dangerous Goods/E tion S. 304 RQ No	xcepted Quantity. S. 313 (TRI) No
EPA SARA (Su CAS # 19431-84-6 CAS #	Hazardous Com Curcumenol Hazardous Com	E1, E2, E4, or E5, this item me Therefore packaging does not Section 15. Regu tents and Reauthorization Act ponents (Chemical Name)	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S	Dangerous Goods/E tiON S. 304 RQ No State Lists	xcepted Quantity. S. 313 (TRI) No
EPA SARA (Su CAS # 19431-84-6 CAS #	Hazardous Com Curcumenol Hazardous Com Curcumenol	E1, E2, E4, or E5, this item me Therefore packaging does not Section 15. Regu tents and Reauthorization Act ponents (Chemical Name)	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No PROP.65: No	Dangerous Goods/E tion S. 304 RQ No State Lists o; CWA NPDES: No	xcepted Quantity. S. 313 (TRI) No ; TSCA: No; CA
EPA SARA (Su CAS # 19431-84-6 CAS # 19431-84-6	Hazardous Com Curcumenol Hazardous Com Curcumenol	E1, E2, E4, or E5, this item me Therefore packaging does not Section 15. Regu nents and Reauthorization Act ponents (Chemical Name)	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No PROP.65: No	Dangerous Goods/E tion S. 304 RQ No State Lists o; CWA NPDES: No	xcepted Quantity. S. 313 (TRI) No ; TSCA: No; CA
EPA SARA (Su CAS # 19431-84-6 CAS # 19431-84-6 Regulatory Infe	Hazardous Com Curcumenol Hazardous Com Curcumenol	E1, E2, E4, or E5, this item me Therefore packaging does not Section 15. Regu ents and Reauthorization Act ponents (Chemical Name) ponents (Chemical Name)	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No PROP.65: No ordance with 29 CFR	Dangerous Goods/E tiON S. 304 RQ No State Lists o; CWA NPDES: No 1910.1200 and Regu	xcepted Quantity. S. 313 (TRI) No ; TSCA: No; CA
EPA SARA (Su CAS # 19431-84-6 CAS # 19431-84-6 Regulatory Infe	Hazardous Com Curcumenol Hazardous Com Curcumenol	E1, E2, E4, or E5, this item me Therefore packaging does not Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) ponents (Chemical Name) This SDS was prepared in acco No.1272/2008.	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No PROP.65: No ordance with 29 CFR	Dangerous Goods/E tiON S. 304 RQ No State Lists o; CWA NPDES: No 1910.1200 and Regu	xcepted Quantity. S. 313 (TRI) No ; TSCA: No; CA
EPA SARA (Su CAS # 19431-84-6 CAS # 19431-84-6 Regulatory Info Statement: Revision Date:	Hazardous Com Curcumenol Hazardous Com Curcumenol	E1, E2, E4, or E5, this item me Therefore packaging does not Section 15. Regu ents and Reauthorization Act ponents (Chemical Name) ponents (Chemical Name) This SDS was prepared in acco No.1272/2008. Section 16. Oth	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No PROP.65: No ordance with 29 CFR	Dangerous Goods/E tiON S. 304 RQ No State Lists o; CWA NPDES: No 1910.1200 and Regu	xcepted Quantity. S. 313 (TRI) No ; TSCA: No; CA
EPA SARA (Su CAS # 19431-84-6 CAS # 19431-84-6 Regulatory Info Statement: Revision Date:	Hazardous Com Curcumenol Hazardous Com Curcumenol	E1, E2, E4, or E5, this item me Therefore packaging does not Section 15. Regu ments and Reauthorization Act ponents (Chemical Name) This SDS was prepared in acco No.1272/2008. Section 16. Ott 05/03/2019	have to be labeled as latory Information of 1986) Lists S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: No PROP.65: No ordance with 29 CFR	Dangerous Goods/E tiON S. 304 RQ No State Lists o; CWA NPDES: No 1910.1200 and Regu	xcepted Quantity. S. 313 (TRI) No ; TSCA: No; CA