

Multi-region format

Revision: 04/11/2019 Supersedes Revision: 02/22/2015

	according t	o Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83/	0 and US OSHA HCS 2015					
	°	o						
	Section 1. 10	entification of the Substance/Mixture and of th	ne Company/Undertaking					
.1	Product Code:	14761						
	Product Name:	Gambogic Acid						
	Synonyms:		etrahydro-8-hydroxy-3,3,11-trimethyl-13-(3-methy					
		2-buten-1-yl)-11-(4-methyl-3-penten-1-yl)-7,15-dioxo-1,5-methano-1H,3H,11H-furo[3,4-g]pyrano 3,2-b]xanthen-1-yl]-2Z-butenoic acid; GA; .betaGuttiferin;						
.2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses: For research use only, not for human or veterinary use.							
.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	per:						
	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					
.1	Classification of the Substa	nce or Mixture						
••	Acute Toxicity: Oral, Cate							
	Skin Corrosion/Irritation, (
	Serious Eye Damage/Eye Irritation, Category 2							
~	Specific Target Organ Toxicity (single exposure), Category 3							
.2	Label Elements:							
	GHS Signal Word:	Danger						
	GHS Hazard Phrases:	-						
	H301: Toxic if swallowed.							
	H315: Causes skin irritation							
	H319: Causes serious eye irritation.							
	H335: May cause respiratory irritation.							
	GHS Precaution Phrases:							
	P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.							
	P264: Wash {hands} thoroughly after handling.							
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.							
	GHS Response Phrases:							
	P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.							
	P302+352: IF ON SKIN: Wash with plenty of soap and water.							
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.							
	P304+340. IF INFIALED. Remove victim to resh all and keep at rest in a position comonable for breathing. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy							
	to do. Continue rinsing.							
	-	TER or doctor/physician if you feel unwell.						
	P330: Rinse mouth.							

Multi-region format

6			Ga	mbogic Acid		Revision: 04/11/201		
ay	man					Supersedes Revision: 02/22/201		
	P332+	313: If skin irritation	n occurs, get medical advice/a	ttention.				
	P337+	313: If eye irritation	n persists, get medical advice/a	attention.				
	P362+	2+364: Take off contaminated clothing and wash it before reuse.						
	GHS S	GHS Storage and Disposal Phrases:						
	Please	e refer to Section 7	for Storage and Section 13 for	r Disposal information	on.			
2.3	Advers	e Human Health	Causes serious eye irritation					
	Effects	and Symptoms:	Causes skin irritation.					
	Material may be irritati			he mucous membra	anes and upper re	espiratory tract.		
			May be harmful by inhalation	-				
			May cause respiratory irritati	on.				
			Toxic if swallowed.					
			To the best of our knowledge	e, the toxicological p	properties have no	ot been thoroughly investigate		
		Sect	tion 3. Composition	/Information	on Ingredie	ents		
CAS		-	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTEC	CS #	REACH Registra	tion No.		EC Index No.			
2752 PB926	2-65-0	Gambogic Acid		100.0 %	631-063-8	Acute Tox.(O) 3: H301		
F D 920	00200				NA	Skin Corr. 2: H315 Eye Damage 2A: H319		
						STOT (SE) 3: H335 H336		
			Continu / Fi	rat Aid Maaa	11800			
			Section 4. Fi	rst Aid Meas	ures			
4.1	-	otion of First Aid	Section 4. Fi	rst Aid Meas	ures			
4.1	Measur	es:						
4.1	Measur		Remove to fresh air. If not br	eathing, give artifici		ive oxygen by trained personn		
4.1	Measur In Case	es: of Inhalation:	Remove to fresh air. If not br Get immediate medical atten	eathing, give artifici tion.	al respiration or gi			
4.1	Measur In Case	es:	Remove to fresh air. If not br Get immediate medical atten Immediately wash skin with s	eathing, give artifici tion. soap and plenty of v	al respiration or gi vater for at least 2	0 minutes. Remove contamina		
4.1	Measur In Case In Case	es: of Inhalation: of Skin Contact:	Remove to fresh air. If not br Get immediate medical atten Immediately wash skin with s clothing. Get medical attentic	eathing, give artifici tion. soap and plenty of v on if symptoms occu	al respiration or gi vater for at least 2 ur. Wash clothing b	0 minutes. Remove contamina before reuse.		
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		Section 6. Accidental Release Measures			
6.1	Protective Precautions, Protective Equipment and Emergency Procedures:	Avoid raising and breathing dust, and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, 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.			
6.3	Precautions: Methods and Material For	Contain spill and collect, as appropriate.			
		Transfer to a chemical waste container for disposal in accordance with local regulations.			
	Up:				
		Section 7. Handling and Storage			
7.1		Avoid breathing dust/fume/gas/mist/vapours/spray.			
		Avoid prolonged or repeated exposure.			
7.2		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		Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne			
	(Ventilation etc.): levels below recommended exposure limits.				
8.2.2					
	-	Safety glasses			
	Other Protective Clothing:Lab coat				
	(Specify Type):	NIOSH approved respirator, as conditions warrant.			
	Work/Hygienic/Maintenan Do not take internally.				
		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 Density (vs. Air = 1)	No data.			
		Multi-region format			



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	Specific	Gravity (Water =	1): No data.						
	Solubility	y in Water:	No data.						
	Solubility	y Notes:	~0.25 mg/ml ir DMSO & DMF	n a 1:3 solution of Ete - ;	OH:PBS (pH	7.2); ~25 mg	/ml in EtOH; ~	16.7 mg/ml in	
	Octanol/	Water Partition	No data.						
	Coefficie	ent:							
	Autoigni	tion Pt:	No data.						
	Decomp	osition Temperat	ure: No data.						
	Viscosity	/:	No data.						
9.2	Other Info	ormation							
	Percent	Volatile:	No data.						
	Molecula	ar Formula & Weig	ght: C38H44O8	628.8					
				. Stability and	Reactiv	ity			
10.1	Reactivit	-	No data available.						
10.2	Stability: Unstable [] Stable [X] Stability Note(s): Stable if stored in accordance with information listed on the product insert.								
10.3	-				ation listed or	the product	insert.		
	Polymeri		Will occur [] Wil	ll not occur [X]					
10.4	Conditio	ns To Avoid:	No data available.						
10.5	-	-	s strong oxidizing agent	ts					
	To Avoid								
10.6	Hazardo		carbon dioxide						
	-	osition or	carbon monoxide						
	Byprodu	cis:							
			Section 11.	Toxicological	Informat	ion			
11.1	Informat	ion on	The toxicological effect	cts of this product ha	ve not been t	horoughly stu	udied.		
	Toxicolo	gical Effects:	Gambogic Acid - Toxicity Data: Intraperitoneal LD50 (rat): 88 mg/kg; Subcutaneous LD50 (mouse):						
			354 mg/kg; Intraperito (intermittent);	onealLDLO (mouse):	39.37 mg/kg	; Oral TDLO	(rat): 420 mg/k	g/1W	
	Chronic	Toxicological	Gambogic Acid - Investigated as a drug and natural product.						
	See		Only select Registry of	y select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.					
			•	actual entry in RTECS for complete information.					
			Gambogic Acid RTEC		200	_			
CAS #	#	Hazardous Com	ponents (Chemical N	ame)	NTP	IARC	ACGIH	OSHA	
275	2-65-0	Gambogic Acid			n.a.	n.a.	n.a.	n.a.	
			Section 12	. Ecological Ir	nformatio	on			
12.1	Toxicity:		Avoid release into the						
			Runoff from fire control	ol or dilution water m	ay cause pol	lution.			
12.2	Persister		No data available.						
	Degrada	-							
12.3	Bioaccu		No data available.						
	Potential								
12.4	Mobility		No data available.						
12.5									
40.0	assessm		No data availab						
12.6	other ad	verse effects:	No data available.				N	lulti-region format	



SAFETY DATA SHEET Gambogic Acid

Revision: 04/11/2019 Supersedes Revision: 02/22/2015

CHIMICAL				Supe	rsedes Revision: 02/22/2015		
		Section 13. Dispo	sal Considera	tions			
3.1 Waste	Disposal Method:	Dispose in accordance with local, state, and federal regulations.					
		Section 14. Tran	nsport Informa	ition			
14.1 LAND	TRANSPORT (US	DOT):					
DOT Prop	er Shipping Name	: Toxic solid, organic, n.o.s.	(Gambogic acid)				
DOT Haza	rd Class:	6.1 POISON					
UN/NA Number:		UN2811	Packing Group:		III		
		POISON 6					
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):					
ADR/RID	Shipping Name:	Toxic solid, organic, n.o.s.	(Gambogic acid)				
UN Numb	er:	2811	Packing Gro	oup:	III		
Hazard Cl	ass:	6.1 - POISON					
14.3 AIR TF	RANSPORT (ICAO/	IATA):					
ICAO/IAT	A Shipping Name:	Toxic solid, organic, n.o.s.	(Gambogic acid)				
UN Numb	er:	2811	Packing Gro	oup:	III		
Hazard CI	ass:	6.1 - POISON	IATA Classif	IATA Classification:			
Additional Tra	ansport	Transport in accordance with	local, state, and federa	al regulations.			
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 me			-		
		Therefore packaging does not	have to be labeled as	s Dangerous Good	s/Excepted Quantity.		
		Section 15. Regu	ulatory Informa	ation			
EPA SARA (S	uperfund Amendn	nents and Reauthorization Act	t of 1986) Lists		-		
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
2752-65-0	Gambogic Acid		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists			
2752-65-0	Gambogic Acid		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory In	formation	This SDS was prepared in acc	cordance with 29 CFR	1910.1200 and Re	egulation (EC)		
Statement:		No.1272/2008.			o		
		Section 16. Ot	her Informatio	n			
Revision Date:		04/11/2019		· · ·			
		No data available.					
Additional Information About This Product:							
Company Policy or Disclaimer:		DISCLAIMER: This information	n is helieved to be acc	urate and represe	nts 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.					