

# SAFETY DATA SHEET Ginsenoside Rh1

Revision: 06/29/2019

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1		Identification of the Substance/Mixture and of th	1 7 7 7 7				
	Draduat Cada	07040					
	Product Code: Product Name:	27318 Ginsenoside Rh1					
			nor 24 on 6 vi /bota D duconvranceida				
	Synonyms:(3.beta.,6.alpha.,12.beta.)-3,12,20-trihydroxydammar-24-en-6-yl, /betaD-glucopyranoside20(S)-Ginsenoside Rh1; Prosapogenin A2; Sanchinoside Rh1;						
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 nur						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
	Classification of the Subs Acute Toxicity: Oral, Ca Label Elements:		ation				
	Acute Toxicity: Oral, Ca Label Elements:	tance or Mixture: tegory 4	ation				
2	Acute Toxicity: Oral, Ca	tance or Mixture:	ation				
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word:	tance or Mixture: tegory 4 Warning	ation				
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe	t <b>ance or Mixture:</b> t <b>egory 4</b> Warning ed.	ation				
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases:	tance or Mixture: tegory 4 Warning ed. s:	ation				
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrase	itance or Mixture: Itegory 4 Warning ed. Is: oughly after handling.	ation				
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrase P264: Wash {hands} thor GHS Response Phrases	itance or Mixture: Itegory 4 Warning ed. Is: oughly after handling.					
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallows GHS Precaution Phrases P264: Wash {hands} thor GHS Response Phrases P301+312: IF SWALLOW	tance or Mixture: tegory 4 Warning ed. s: oughly after handling. s: /ED: Call a POISON CENTER or doctor/physician if					
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrases P264: Wash {hands} thor GHS Response Phrases P301+312: IF SWALLOW P330: Rinse mouth.	tance or Mixture: tegory 4 Warning ed. s: oughly after handling. s: /ED: Call a POISON CENTER or doctor/physician if	you feel unwell.				
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrases P264: Wash {hands} thor GHS Response Phrases P301+312: IF SWALLOW P330: Rinse mouth.	tance or Mixture: tegory 4 Warning ed. s: oughly after handling. s: /ED: Call a POISON CENTER or doctor/physician if the selection of t	you feel unwell.				
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2	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallows GHS Precaution Phrases P264: Wash {hands} thor GHS Response Phrases P301+312: IF SWALLOW P330: Rinse mouth. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	stance or Mixture:         Itegory 4         Warning         ed.         s:         oughly after handling.         s:         /ED: Call a POISON CENTER or doctor/physician if the seal Phrases:         for Storage and Section 13 for Disposal information.         Harmful if swallowed.         Material may be irritating to the mucous membrane	you feel unwell.				

Multi-region format



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		Sect	tion 3. Composition	/Information	on Ingredie	nts		
CAS # / RTECS # 63223-86-9 LZ6428000		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration 100.0 %	EC No./ EC Index No. 683-201-1 NA	GHS Classification		
		Ginsenoside Rh1				Acute Tox.(O) 4: H302		
			Section 4. Fi	rst Aid Measu	ures			
4.1	Descrip	otion of First Aid						
	Measur	es:						
		of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		l respiration or giv	ve oxygen by trained personnel.		
	In Case	of Skin Contact:	<b>kin Contact:</b> Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.					
	In Case	of Eye Contact:						
	In Case	of Ingestion:	Wash out mouth with water p unconscious person. Get med medical personnel.	•		ive anything by mouth to an ng unless directed to do so by		
			Section 5. Fire Fighting Measures					
L 5.1 Suitable Extinguishing		e Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.					
	Unsuita	Media:Use water spray to cool fire-exposed containers.Unsuitable ExtinguishingA solid water stream may be inefficient.						
Media: 5.2 Flammable Properties andNo data Hazards:			<b>d</b> No data available.					
	nazara		No data available.					
	Flash P	't:	No data.					
	Explos	ive Limits:	LEL: No data.	UEL: No da	ata.			
	Autoig	nition Pt:	No data.					
5.3	-							
			Section 6. Acciden	tal Release N	Measures			
6.1	Protect	ive Precautions,	Avoid raising and breathing			۱.		
				-	-	eathing apparatus, or respirator,		
	Emerge	ency Procedures:	and appropriate personal pro	otection (rubber boot	ts, safety goggles	, and heavy rubber gloves).		
6.2	Enviror Precau	nmental tions:	Take steps to avoid release	into the environmen	t, if safe to do so.			
<ul> <li>6.3 Methods and Material For Contain spill and collect, as appropriate.</li> <li>Containment and CleaningTransfer to a chemical waste container for disposal in account of the container</li></ul>			sal in accordance	with local regulations.				
Up:					-			
			Section 7. Har	ndling and Sto	orage			
7.1	Precau	tions To Be Taken	Avoid breathing dust/fume/ga					
	in Hand		Avoid prolonged or repeated					
7.2			Keep container tightly closed					
	in Stori	ng:	Store in accordance with info	rmation listed on the	e product insert.			
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	Section	on 8. Exposure Controls/Personal Protection					
.1	Exposure Parameters:						
.2	Exposure Controls:						
8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to cont							
	(Ventilation etc.):	evels below recommended exposure limits.					
.2.2	Personal protection equipment:						
	Eye Protection:	ty glasses					
	Protective Gloves: 0	Compatible chemical-resistant gloves					
	Other Protective Clothing:L	ab coat					
	Respiratory Equipment	IIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan	Do not take internally.					
	ce Practices:	acilities storing or utilizing this material should be equipped with an eyewash and a safety show					
	V	Vash thoroughly after handling.					
	Ν	lo data available.					
	Se	ction 9. Physical and Chemical Properties					
.1	Information on Basic Physic						
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A 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 r						
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1)	: No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~0.2 mg/ml in a 1:4 solution of DMF:PBS (pH 7.2); ~10 mg/ml in EtOH; ~20 mg/ml in DMSO & DMF;					
	Octanol/Water Partition Coefficient:	No data.					
	Autoignition Pt:	No data.					
	Decomposition Temperatur						
	Viscosity:	No data.					

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9.2	Other Inf	ormation						
	Percent	Volatile:	No data.					
	Molecular Formula & Weight: C36H62O9 638.9							
			Section 10. Stat	oility and	Reactiv	/ity		
10.1	Reactivity: No data available.							
10.2	Stability:     Unstable []     Stable [X]							
10.3								
	Polymerization: Will occur [ ] Will not occur [ X ]							
10.4	Conditio	ns To Avoid:	No data available.					
10.5	Incompa	Incompatibility - Materials strong oxidizing agents						
	To Avoid:							
10.6	Hazardo		carbon dioxide					
		osition or	carbon monoxide					
	Byprodu	icts:						
			Section 11. Toxic	ological	Informa	ition		
11.1	Informat	ion on	The toxicological effects of the	is product hav	ve not been	thoroughly st	udied.	
	Toxicolo	gical Effects:	Ginsenoside Rh1 - Toxicity D	ata: Oral TDL	O (mouse)	: 10 mg/kg;		
	Chronic	Toxicological	Only select Registry of Toxic			stances (RTEC	CS) data is pre	sented here.
	Effects:		See actual entry in RTECS fo	•				
		1	Ginsenoside Rh1 RTECS Nu	mber: LZ6428	8000			
CAS			ponents (Chemical Name)		NTP	IARC	ACGIH	OSHA
632	23-86-9	Ginsenoside Rh1			n.a.	n.a.	n.a.	n.a.
			Section 12. Eco	logical Ir	nformati	on		
12.1	Toxicity: Avoid release into the environment.			nment.				
			Runoff from fire control or dilu	ution water ma	ay 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	Results	of PBT and vPvB	No data available.					
	assessm	nent:						
12.6	Other ad	verse effects:	No data available.					
			Section 13. Dispo	osal Con	siderati	ons		
13.1	Waste D	isposal Method:	Dispose in accordance with lo	ocal, state, an	nd federal re	gulations.		
I								
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Section 14. Transport Information						
RANSPORT (US I	ООТ):					
r Shipping Name:	Not dangerous goods.					
d Class:						
nber:						
-						
	Not dangerous goods.					
	ATA):					
Shipping Name:	, Not dangerous goods.					
nsport	Transport in accordance with loc	cal, state, and federa	l regulations.			
	Section 15. Regula	atory Information	tion			
-		-				
	ponents (Chemical Name)	· · ·		S. 313 (TRI)		
		-		No		
	ponents (Chemical Name)	Other US EPA or State Lists				
Ginsenoside Rh1		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
rmation		rdance with 29 CFR 2	1910.1200 and Regul	ation (EC)		
	Section 16. Oth	er Information	า			
	06/29/2019					
mation About	No data available.					
y or Disclaimer:			-			
	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.					
	r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name: r: ss: ANSPORT (ICAO/I Shipping Name: nsport perfund Amendm Hazardous Com Ginsenoside Rh1 Hazardous Com Ginsenoside Rh1	RANSPORT (US DOT):         r Shipping Name:       Not dangerous goods.         d Class:         heber:         RANSPORT (European ADR/RID):         hipping Name:       Not dangerous goods.         r:       ss:         NNSPORT (ICAO/IATA):         Shipping Name:       Not dangerous goods.         nsport       Transport in accordance with low         Section 15. Regul         perfund Amendments and Reauthorization Act of         Hazardous Components (Chemical Name)         Ginsenoside Rh1         Hazardous Components (Chemical Name)         Ginsenoside Rh1         rmation       This SDS was prepared in according Not 272/2008.         Section 16. Oth         06/29/2019         mation About       No data available.         y or Disclaimer:       DISCLAIMER: This information in currently available to us. However express or implied, with respect	RANSPORT (US DOT):         r Shipping Name:       Not dangerous goods.         d Class:         nber:         RANSPORT (European ADR/RID):         nipping Name:       Not dangerous goods.         ::       ::         ss:       Not dangerous goods.         ::       ::         ::       ::         ::       ::         ::       ::         ::       ::         ::       ::         ::       ::         :::       ::         ::::::::::::::::::::::::::::::::::::	RANSPORT (US DOT):         r Shipping Name:       Not dangerous goods.         d Class:         iber:         RANSPORT (European ADR/RID):         nipping Name:       Not dangerous goods.         ::         ss:         NNSPORT (ICAO/IATA):         Shipping Name:       Not dangerous goods.         :sport       Transport in accordance with local, state, and federal regulations.         Section 15. Regulatory Information         perfund Amendments and Reauthorization Act of 1986) Lists         Hazardous Components (Chemical Name)       S. 302 (EHS)         Ginsenoside Rh1       No         Mazardous Components (Chemical Name)       Other US EPA or State Lists         Ginsenoside Rh1       CAA HAP,ODC: No; CWA NPDES: No PROP.65: No         rmation       This SDS was prepared in accordance with 29 CFR 1910.1200 and Regul No.1272/2008.         Section 16. Other Information         06/29/2019         mation About       No data available.         y or Disclaimer:       DISCLAIMER: This information is believed to be accurate and represents i currently available to us. However, we make no warranty of merchantabilit express or implied, with respect to such information, and we assume no lia use. Users should make their own investigations to determine the suitabilit		