

SAFETY DATA SHEET Astragaloside IV

	87-43-4 76542		20,24-epoxy-16,25-dihydroxy- xy)-9,19-cyclolanostan-6-yl	100.0 %	617-610-3 NA	No data available.			
CAS # / RTECS #		Hazardous Components (Chemical Name)/ REACH Registration No.		Concentration	EC No./ EC Index No.	GHS Classification			
		Section	on 3. Composition	mormation		111.5			
			-	-					
			Aay cause eye, skin, or respi			been thoroughly investigated.			
	Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.								
2.3	Advers	Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.							
		•	Storage and Section 13 for	Disposal informatio	n.				
	No phrases apply. GHS Storage and Disposal Phrases:								
	GHS Response Phrases:								
	No phrases apply.								
	GHS	Precaution Phrases:							
	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.								
		Hazard Phrases:							
	СНС	Signal Word:	None						
2.1 2.2		cation of the Substa lements:	nce or mixture:						
	01	antine of the Orthoto	Section 2. Haz		cation				
						0,021 0001			
	Emerg	gency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887			
1.4	-	ncy telephone numb		and Consta	. 4 /00	0)424 0200			
		nation:	Cayman Chemical Comp	any	+1 (734	4)971-3335			
		site address:	www.caymanchem.com						
			Ann Arbor, MI 48108						
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd.	Cayman Chemical Company					
1.3	Details of the Supplier of the Safety Data Sheet:								
	Relevant identified uses: For research use only, not for human or veterinary use.								
1.2	Relevant identified uses of the substance or mixture and uses advised against:								
			9,19-cyclolanostan-6-yl,.t	etaD-glucopyranc	oside; AS-IV;				
	Synony		-	,20R,24S)-20,24-ep	oxy-16,25-dihydro	oxy-3-(.betaD-xylopyranosylo			
1.1	Produc Produc		12069 Astragaloside IV	12069					
						5			
		Section 1. Id	entification of the Substan	cenvilxlure and or	the Company/U	ndertakind			



SAFETY DATA SHEET Astragaloside IV

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Revision: 06/05/2017

		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 15 minutes. Remove contaminated 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 15 minutes. Have eyes examined 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.
		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 Media:	g A solid water stream may be inefficient.
5.2	Flammable Properties ar Hazards:	I d No data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	s: 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. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	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 Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3		r Contain spill and collect, as appropriate.
		ngTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taker	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	



SAFETY DATA SHEET Astragaloside IV

	HEMICAL						
8.2	Exposure Controls:						
8.2.1	Engineering Controls	rocess enclosures, local exhaust ventilation, or other engineering controls to control airborne below recommended exposure limits.					
	(Ventilation etc.):						
8.2.2	Personal protection equipment:						
	Eye Protection:	glasses atible chemical-resistant gloves					
	Protective Gloves:						
	Other Protective Clothing:Lab coat						
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.						
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower					
	V	Nash thoroughly after handling.					
	Ν	No data available.					
	So	ction 9. Physical and Chemical Properties					
9.1	-	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 r	mm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1)	No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2); ~30 mg/ml in DMSO; ~20 mg/ml in DMF;					
	Octanol/Water Partition Coefficient:	No data.					
	Autoignition Pt:	No data.					
	Decomposition Temperatur	No data.					
	Viscosity:	No data.					
9.2	Other Information						
5.2	Percent Volatile:	No data.					
	Molecular Formula & Weigh	II: C41F106O14 765.0					

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SAFETY DATA SHEET Astragaloside IV

Revision: 06/05/2017

			Section 10. Stability and	Reactivit	у							
10.1	Reactivity: No data available.											
10.2	Stability	:	Unstable [] Stable [X]									
10.3 Stability Note(s): Stable if stored in accordance with information listed on the product inse					sert.							
	Polymerization:		Will occur [] Will not occur [X]									
10.4	Conditio	ons To Avoid:	No data available.									
10.5	-	-	strong oxidizing agents									
To Avoid:												
10.6	Hazardous		carbon dioxide									
	Decomposition or		carbon monoxide									
	Byprodu											
			Section 11. Toxicological	Informati	on							
11.1	Informat		The toxicological effects of this product have									
	Toxicolo	gical Effects:	Astragaloside IV - Toxicity Data: Intraperito	oneal TDLO (ra	at): 2.5 mg/kg	; Oral TDLO	(mouse): 5					
	Chronic	Toxicological	mg/kg; Astragaloside IV - Investigated as a drug a	nd natural are	duct							
	Effects:	Toxicological	Only select Registry of Toxic Effects of Chi	-) data is pre	sented here					
	Lifects.		See actual entry in RTECS for complete in) data to pro-						
			Astragaloside IV RTECS Number: LZ5776									
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA					
8468	37-43-4	bD-Glucopyranc	oside,	n.a.	n.a.	n.a.	n.a.					
			24S)-20,24-epoxy-16,25-dihydroxy-3-(bD									
		-xylopyranosyloxy	/)-9,19-cyclolanostan-6-yl									
			Section 12. Ecological Ir	formatio	า							
12.1	Toxicity	:	Avoid release into the environment.									
			Runoff from fire control or dilution water may cause pollution.									
12.2	Persiste		No data available.									
	Degrada	bility:										
12.3		mulative	No data available.									
	Potentia											
						No data available.						
12.4	Mobility											
	Results	of PBT and vPvB	No data available. No data available.									
12.5	Results assessm	of PBT and vPvB nent:	No data available.									
12.4 12.5 12.6	Results assessm	of PBT and vPvB	No data available. No data available.									
12.5	Results assessm	of PBT and vPvB nent:	No data available.	sideratio	าร							

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SAFETY DATA SHEET Astragaloside IV

Page: 5 of 5

Revision: 06/05/2017

CHEMICAL		Saction 14 Trees	port Inform	otion		
		Section 14. Trans	sport inform	allon		
	TRANSPORT (US	-				
-	er Shipping Name	: Not dangerous goods.				
DOT Haza						
UN/NA Nu						
	TRANSPORT (Eur					
UN Numbe	Shipping Name:	Not dangerous goods.				
Hazard Cla						
	ANSPORT (ICAO/	IATA):				
	A Shipping Name:	, Not dangerous goods.				
Additional Tra		Transport in accordance with loc	cal, state, and fede	ral regulations.		
Information:				C C		
		Section 15. Regula	atory Inform	ation		
EPA SARA (Si	uperfund Amendn	nents and Reauthorization Act o	-			
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
84687-43-4	bD-Glucopyrane	oside,	No	No	No	
		,24S)-20,24-epoxy-16,25-dihydro				
	xy-3-(bD-xylopyranosyloxy)-9,19-cyclolanostan-6					
	-yl					
CAS #		ponents (Chemical Name)	Other US EPA or State Lists			
84687-43-4	bD-Glucopyrand (3b.,6a,16b.,20R	oside, 2,24S)-20,24-epoxy-16,25-dihydro /ranosyloxy)-9,19-cyclolanostan-6			: NO; TSCA: NO; CA	
	xy-3-(bD-xylopy -yl					
Regulatory Inf	ormation	This SDS was prepared in accor	dance with 29 CF	R 1910.1200 and R	egulation (EC)	
Statement:		No.1272/2008.				
		Section 16. Oth	er Informati	on		
Revision Date:		06/05/2017				
Additional Info	ormation About	No data available.				
This Product:						
Company Polic	cy or Disclaimer:	DISCLAIMER: This information is	s believed to be ad	ccurate and represe	ents 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.				
		their particular purposes.				