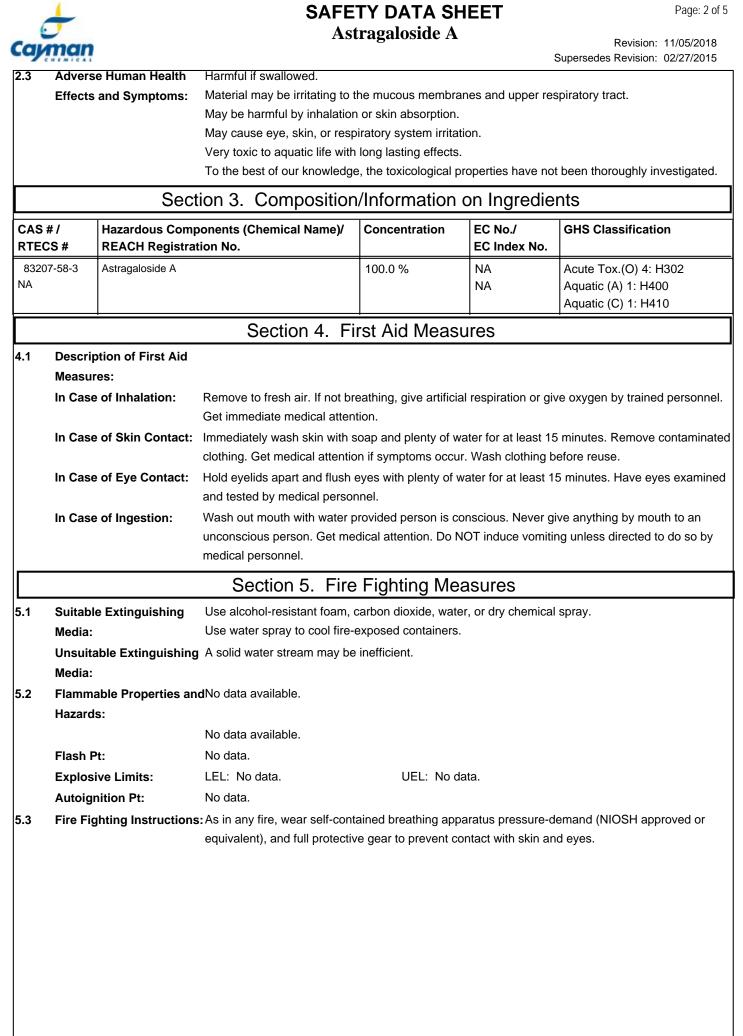


SAFETY DATA SHEET Astragaloside A

Revision: 11/05/2018 Supersedes Revision: 02/27/2015

oduct Code: oduct Name: nonyms: evant identified uses o elevant identified uses ails of the Supplier of t ompany Name: /eb site address: iformation:	,	betaD-xylopyranosyloxy)-9,19-cyclolanostan-6 A; Astramembrannin I; ainst:
oduct Name: nonyms: evant identified uses o elevant identified uses ails of the Supplier of t ompany Name: /eb site address: iformation:	Astragaloside A 20,24R-epoxy-16.beta.,25-dihydroxy-3.beta(.l phaylbetaD-glucopyranoside; AS-A; AST-A of the substance or mixture and uses advised aga : For research use only, not for human or vetering the Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	A; Astramembrannin I;
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ompany Name: /eb site address: iformation:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	
leb site address:	1180 E. Ellsworth Rd. Ann Arbor, MI 48108	
formation:	Ann Arbor, MI 48108	
formation:		
formation:	www.caymanchem.com	
	-	
	Cayman Chemical Company	+1 (734)971-3335
ergency telephone nun	nber:	
mergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
	CHEMTREC Outside USA and Canada:	+1 (703)527-3887
	Section 2. Hazards Identifica	ation
HS Signal Word:	Warning	
HS Signal Word: GHS Hazard Phrases:	Warning	
HS Hazard Phrases:	-	
-	ed.	
HS Hazard Phrases: 1302: Harmful if swallowe 1400: Very toxic to aquati	ed.	
HS Hazard Phrases: 1302: Harmful if swallowe 1400: Very toxic to aquati	ed. ic life. ic life with long lasting effects.	
HS Hazard Phrases: 1302: Harmful if swallowe 1400: Very toxic to aquati 1410: Very toxic to aquati 1410: Very toxic to aquati	ed. ic life. ic life with long lasting effects. s:	
HS Hazard Phrases: 1302: Harmful if swallowe 1400: Very toxic to aquati 1410: Very toxic to aquati 1410: Very toxic to aquati 1410: Very toxic to aquati 1410: Very toxic to aquati	ed. ic life. ic life with long lasting effects. s: oughly after handling.	
HS Hazard Phrases: 1302: Harmful if swallowe 1400: Very toxic to aquati 1410: Very toxic to aquati 1410: Very toxic to aquati 145 Precaution Phrases 1264: Wash {hands} thoro 1273: Avoid release to the	ed. ic life. ic life with long lasting effects. s: bughly after handling. e environment.	
HS Hazard Phrases: 1302: Harmful if swallowed 1400: Very toxic to aquation 1410: Very toxic t	ed. ic life. ic life with long lasting effects. s: oughly after handling. e environment.	vou feel unwell
HS Hazard Phrases: (302: Harmful if swallowed (400: Very toxic to aquati (410: Very toxic to aquati (4	ed. ic life. ic life with long lasting effects. s: bughly after handling. e environment.	you feel unwell.
HS Hazard Phrases: 1302: Harmful if swallowed 1400: Very toxic to aquation 1410: Very toxic t	ed. ic life. ic life with long lasting effects. s: oughly after handling. e environment.	you feel unwell.
HS Hazard Phrases: (302: Harmful if swallowed (400: Very toxic to aquati (410: Very toxic to aquati (4	ed. ic life. ic life with long lasting effects. s: bughly after handling. e environment. :: /ED: Call a POISON CENTER or doctor/physician if	you feel unwell.
	cute Toxicity: Oral, Ca quatic Toxicity (Acute)	Section 2. Hazards Identifica ssification of the Substance or Mixture: cute Toxicity: Oral, Category 4 quatic Toxicity (Acute), Category 1 quatic Toxicity (Chronic), Category 1





SAFETY DATA SHEET

Astragaloside A

F	Revision:	11/05/2018
Supersedes F	Revision:	02/27/2015

	ç	Section 6. Accidental Release Measures			
6.1	Protective Equipment and	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	· · · · · · · · · · · · · · · · · · ·	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.			
	Section	on 8. Exposure Controls/Personal Protection			
8.1	Exposure Parameters:				
8.2	Exposure Controls:				
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne			
	(Ventilation etc.):	evels below recommended exposure limits.			
8.2.2	Personal protection equipr	nent:			
	Eye Protection:	Safety glasses			
	Protective Gloves:	Compatible chemical-resistant gloves			
	Other Protective Clothing:	_ab coat			
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.			
	(Specify Type):	ie):			
	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.			
	Wash thoroughly after handling.				
	No data available.				
	Se	ction 9. Physical and Chemical Properties			
9.1	Information on Basic Physic	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			

SAFETY DATA SHEET Astragaloside A

Page: 4 of 5

	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	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperat					
	Viscosity:	No data.				
9.2	Other Information					
5.2	Percent Volatile:	No data.				
	Molecular Formula & Wei					
10.1	Depativity	Section 10. Stability and Reactivity No data available.				
10.1	Reactivity:					
10.2	Stability:	Unstable [] Stable [X]				
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.				
	Polymerization:	Will occur [] Will not occur [X]				
10.4	Conditions To Avoid:	No data available.				
10.5	Incompatibility - Materials					
	To Avoid:	strong bases				
		strong oxidizing agents				
		strong reducing agents				
10.6	Hazardous	No data available.				
	Decomposition or					
	Byproducts:					
		Section 11. Toxicological Information				
11.1	Information on	The toxicological effects of this product have not been thoroughly studied.				
	Toxicological Effects:					
CAS	# Hazardous Com	ponents (Chemical Name) NTP IARC ACGIH OSHA				
8320	07-58-3 Astragaloside A	n.a. n.a. n.a. n.a.				
	+	Section 12. Ecological Information				
12.1	Toxicity:	Avoid release into the environment.				
Runoff from fire control or dilution water may cause pollution.						
12.2	Persistence and	No data available.				
	Degradability:					
12.3 Bioaccumulative No data available.						
12.0	Potential:					
12.4						
12.5	Results of PBT and vPvB					
12.5	assessment:	INU UARA AVAIIADIE.				
12 6		No data available				
12.6	Other adverse effects:	No data available.				



SAFETY DATA SHEET Astragaloside A

Revision: 11/05/2018 Supersedes Revision: 02/27/2015

Section 13. Disposal Considerations Section 14. Transport Information Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangarous goods. DOT Hazard Class: UNNA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 14.3 AIR TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 14.3 AIR TRANSPORT (CAO/IATA): ICAO/IATA Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 Additional Transport Transport in accordance with local, state, and federal regulations. Information: When solid in quantities of less than or equal to 1 rmL, or 1 g, with an Excepted Quantity. Code of E1, E2, E4, or E5, this inform meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1980) Lists CAS # Hazardous Components (Chemical Name) No No Section 16. Other Information <th>CHEMICAL</th> <th></th> <th></th> <th></th> <th>Supersec</th> <th>des Revision: 02/27/2015</th>	CHEMICAL				Supersec	des Revision: 02/27/2015	
Section 14. Transport Information 14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UNNA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - 0.LASS 9 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/ATA Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 9 - 0.LASS 9 IATA Classification: 44ditional Transport Transport in accordance with local, state, and federal 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 meets the De Minimis Quantities examption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. EPA SARA (Superfund Amendments and Reauthorization Act of 1980; Lists CAS # Hazardous Components (Chemical Name) S.302 (EHS) S.304 RQ S.313 (TRI) 83207-58-3 <t< td=""><td></td><td></td><td>Section 13. Dispo</td><td>sal Considerat</td><td>ions</td><td></td></t<>			Section 13. Dispo	sal Considerat	ions		
14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 IATA Classification: 9 Additional Transport Transport in accordance with local, state, and federal regulations. Information: Information: When soid in quantities of less than or equal to 1 m.d. or 1, g. with an Excepted Quantity. Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S.004 RQ S. 313 (TRI) 83207-58-3 Astragaloside A No No <td< td=""><td>13.1 Waste I</td><td>Disposal Method:</td><td>Dispose in accordance with loc</td><td>cal, state, and federal r</td><td>egulations.</td><td></td></td<>	13.1 Waste I	Disposal Method:	Dispose in accordance with loc	cal, state, and federal r	egulations.		
DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UNNA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 IATA Classification: 9 Additional Transport Transport in accordance with local, state, and federal 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 meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 83207-58-3 Astragaloside A			Section 14. Trar	nsport Informat	tion		
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UNNA Number: 14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 IATA Classification: 9 Additional Transport Transport in accordance with local, state, and federal regulations. III 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 meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS# Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 83207-58-3 Astragaloside A No No No Regulatory Information Regulatory Information Section 16. Other Information	DOT Proper Shipping Name: Not dangerous goods.						
14.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 III 14.3 AIR TRANSPORT (ICAO/IATA): III ICAO/IATA Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) III UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 IATA Classification: 9 Additional Transport Transport in accordance with local, state, and federal regulations. III Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information Rev Masardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 83207-58-3 Astragaloside A No No No CWAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 83207-58-3 Astragaloside A CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: N							
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Hazard Class: 9 - CLASS 9 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 IATA Classification: 9 Additional Transport Transport in accordance with local, state, and federal regulations. III 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 meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 83207-58-3 Astragaloside A No No No CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No Regulatory Information Section 16. Other Information Section 16. Other Information No 1272/2008. DISCLAIMER: This information is believed to be accurate and represents the best information currently available. </td <td></td> <td></td> <td colspan="3"></td> <td>ш</td>						ш	
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ICAO/IATA Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Astragaloside A) UN Number: 3077 Packing Group: III Hazard Class: 9 - CLASS 9 IATA Classification: 9 Additional Transport Transport in accordance with local, state, and federal regulations. 9 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 meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 83207-58-3 Astragaloside A No No No CAS # Hazardous Components (Chemical Name) 83207-58-3 Astragaloside A CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No Regulatory Information State Lists Section 16. Other Information Section 16. Other Information Company Policy or Disclaime: DISCLAIMER: This information is b							
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