

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008								
		Section 1.	Identification of the Substan	ce/Mixture and of t	the Company/Ur	ndertaking		
1.1	Product Product Synony	Name:	22968 AGE-BSA Advanced Glycation End	Product - Bovine Se	rum Albumin; Glu	cose AGE-BSA;		
1.2	Relevan	t identified uses o	f the substance or mixture a	nd uses advised ag	gainst:			
	Releva	ant identified uses	: For research use only, no	ot for human or veter	inary use.			
1.3	Details	of the Supplier of t	he Safety Data Sheet:					
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any				
		ite address:	www.caymanchem.com					
	Inform		Cayman Chemical Comp	any	+1 (734	4)971-3335		
1.4	-	ncy telephone nur						
	Emerg	ency Contact:	CHEMTREC Within USA			0)424-9300		
			CHEMTREC Outside US		-	3)527-3887		
			Section 2. Haz	zards Identific	cation			
2.1		cation of the Subs	tance or Mixture:					
2.2	2.2 Label Elements:							
GHS Signal Word: None								
<ul> <li>GHS Hazard Phrases:</li> <li>Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.</li> <li>GHS Precaution Phrases:</li> <li>No phrases apply.</li> <li>GHS Response Phrases:</li> <li>No phrases apply.</li> </ul>								
			-	ly available data this substance or mixture is not classifiable according to GHS.				
		GHS Storage and Disposal Phrases:						
Please refer to Section 7 for Storage and Section 13 for Disposal information.			niroton ( troot					
2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.								
Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation.								
						been thoroughly investigated.		
		Sect	ion 3. Composition	/Information of	on Ingredier	nts		
	#/	1	•	Concentration	EC No./	GHS Classification		
	CS #	Hazardous Components (Chemical Name)/ REACH Registration No.		Concentration	EC Index No.	GHS Classification		
NA		AGE-BSA		100.0 %	NA	No data available.		
NA					NA			



Revision: 08/23/2017

		Section 4. First Aid Measures
4.1		
	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:	ıdNo 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.
	Containment and Cleanin	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	NKeep 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:	

Multi-region format



	armical.		
8.2	Exposure Controls:		
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne	
	(Ventilation etc.):	levels below recommended exposure limits.	
8.2.2	2 Personal protection equipment:		
	Eye Protection:	Safety glasses	
	Protective Gloves:	Compatible chemical-resistant gloves	
	Other Protective Clothing	:Lab coat	
	<b>Respiratory Equipment</b>	NIOSH approved respirator, as conditions warrant.	
	(Specify Type):		
	Work/Hygienic/Maintenan Do not take internally.		
	<b>ce Practices:</b> Facilities storing or utilizing this material should be equipped with an eyewash		
		Wash thoroughly after handling.	
No data available.			
		ection 9. Physical and Chemical Properties	
9.1 Information on Basic Physical and Chemical Properties			
	Physical States:	[]Gas []Liquid [X]Solid	
	Appearance and Odor:	Lyophilized from a solution in PBS, pH 7.4	
	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.	
	Specific Gravity (Water =	1): No data.	
	Solubility in Water:	No data.	
	<b>Octanol/Water Partition</b>	No data.	
	Coefficient:		
	Autoignition Pt:	No data.	
	Decomposition Temperate	ure: No data.	
	Viscosity:	No data.	
9.2	Other Information		
	Percent Volatile:	No data.	
		Section 10. Stability and Reactivity	
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 insert.	
	Polymerization:	Will occur [ ] Will not occur [ X ]	
10.4	Conditions To Avoid:	No data available.	
10.5	Incompatibility - Materials		
10.5	To Avoid:		
10.0		No data available	
10.6	Hazardous	No data available.	



	Decomposition or							
	Byproducts:							
			Section 11. Toxico	logical Infor	mation			
<b>11.1 Information on</b> The toxicological effects of this product have not been thoroughly studied.								
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	oonents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	NA	AGE-BSA		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecolo	ogical Inform	nation			
12.1	Toxicity		Avoid release into the environment.					
			Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste	nce and	No data available.					
	Degrada	bility:						
12.3	Bioaccu	umulative No data available.						
	Potentia	l:						
12.4	Mobility	in Soil:	No data available.					
12.5	Results	of PBT and vPvB	No data available.					
	assessm	ent:						
12.6	Other ad	verse effects:	No data available.					
			Section 13. Dispos	sal Conside	rations			
13.1	Waste D	isposal Method:	Dispose in accordance with loc	al, state, and fede	ral regulations.			
			Section 14. Tran	sport Inform	nation			
14.1	LAND T	RANSPORT (US I	DOT):					
D	OT Prope	r Shipping Name:	Not dangerous goods.					
D	OT Hazar	d Class:						
U	N/NA Nun	nber:						
14.1	LAND T	RANSPORT (Euro	ppean ADR/RID):					
Α	DR/RID SI	nipping Name:	Not dangerous goods.					
U	N Numbe	:						
Н	azard Cla	SS:						
14.3		NSPORT (ICAO/I	-					
		Shipping Name:	Not dangerous goods.					
	tional Trar	isport	Transport in accordance with lo	ocal, state, and fec	leral regulations.			
			Section 15. Regu	latory Inform	nation			
FΡΔ	SARA (Su	nerfund Amendm	ents and Reauthorization Act	•				
CAS	-		conents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313	s (TRI)	
	NA	AGE-BSA		No	No	No	, (,	
CAS	#		oonents (Chemical Name)	Other US EPA	or State Lists	ļ		
	NA     AGE-BSA     CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA       PROP.65: No			No; CA				
						N	Iulti-region format	



Page: 5 of 5

Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.
	Section 16. Other Information
Revision Date:	08/23/2017
Additional Information About This Product:	No data available.
This Product: Company Policy or Disclaimer:	DISCLAIMER: This information is believed to be accurate and represents 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.