

Revision: 08/18/2015 Supersedes Revision: 05/01/2015

						Supersedes Revision: 05/01/2015			
			Regulation (EC) No. 1907/2006 as a						
		Section 1. Ide	ntification of the Substar	nce/Mixture and of	the Company/U	ndertaking			
.1	Produc	t Code:	28717						
		t Name:	MIF Polyclonal Antibody						
	Synony	/ms:	Migration Inhibitor	ry Factor;					
.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:								
	Comp	any Name:	Cayman Chemical Company						
			1180 E. Ellsworth Rd.						
	Mah a	site address:	Ann Arbor, MI 48108						
		nation:	www.caymanchem.com Cayman Chemical Com		+1 (72	4)071 2225			
				Jany	+1 (73	4)971-3335			
1.4	-	ency telephone numb gency Contact:	er: CHEMTREC Within USA	and Canada:	+1 (90	00/424 0200			
	Linei	gency contact.	CHEMTREC Outside US		•)0)424-9300)3)527-3887			
			Section 2. Ha		,				
	01.00.01				cation				
2.1		ication of the Substar	ice or mixture:						
2.2		lements:							
		Signal Word:	None						
	GHS Hazard Phrases:								
			ntly available data this sub	stance or mixture is	not classifiable ad	ccording to GHS.			
	GHS Precautionary Phrases:								
	No phrases apply.								
	GHS Response Phrases:								
	-	irases apply.							
		Storage and Disposal							
			Storage and Section 13 for	•					
2.3	Adverse Human HealthMaterial may be irritating to the mucous membranes and upper respiratory tract.Effects and Symptoms:May be harmful by inhalation, ingestion, or skin absorption.								
	Effects		ay be narmui by innalatior ay cause eye, skin, or resp	•					
						t been thoroughly investigated.			
			-	-					
		Sectio	n 3. Compositior	Information	on ingreale	nts			
CAS RTE		Hazardous Compon REACH Registration	ents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification			
NA NA		MIF Polyclonal Antibody	,	0.05 %	NA NA	No data available.			
	-81-5 50000	Glycerol 01-2119471987-18-000	0	50.0 %	200-289-5 NA	No GHS classifications apply			
	28-22-8 50000	Sodium azide		0.02 %	247-852-1 011-004-00-7	Acute Tox.(O) 2: H300 Aquatic (A) 1: H400 Aquatic (C) 1: H410			
	7-14-5 25000	Sodium chloride 01-2119485491-33-000	0	0.85 %	231-598-3 NA	No GHS classifications apply			
	8-77-0 15500	Potassium phosphate, M 01-2119490224-41	Ionobasic	0.03 %	231-913-4 NA	No GHS classifications apply			
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Revision: 08/18/2015 Supersedes Revision: 05/01/2015

	CH 1 M C A			1	1				
	8-79-4 500000	Sodium phosphate, 01-2119489797-11	Dibasic	0.106 %	231-448-7 NA	No data available.			
7732-18-5 Water ZC0110000 na				48.944 %	231-791-2 NA	No GHS classifications apply.			
		4	Section	4. First Aid Mea	asures				
4.1	Descri	iption of First Aid							
	Measu	-							
		e of Inhalation:	Remove to fresh air.	If not breathing, give arti	ficial respiration or	give oxygen by trained personnel.			
			Get immediate medical attention.						
	In Cas	e of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated						
			-	attention if symptoms of	-				
	In Cas	e of Eye Contact:	Hold eyelids apart an and tested by medica		of water for at least	15 minutes. Have eyes examined			
	In Cas	e of Ingestion:	Wash out mouth with	water provided person i	s conscious. Never	give anything by mouth to an			
			•	Get medical attention. D	o NOT induce vom	iting unless directed to do so by			
			medical personnel.						
			Section 5.	Fire Fighting M	leasures				
5.1	Suitab	le Extinguishing	Use alcohol-resistan	t foam, carbon dioxide, w	vater, or dry chemic	al spray.			
	Media	:	Use water spray to cool fire-exposed containers.						
			A solid water stream	may be inefficient.					
	Media								
5.2		Flammable Properties and Emits toxic fumes under fire conditions.							
	Hazaro	Hazards:							
	Flash	D4.	No data available. No data.						
			LEL: No data.	UEL: N	o data				
	-	sive Limits: gnition Pt:	No data.	UEL. N	o uala.				
5.3	-	-		elf contained breathing	annaratus pressure	-demand (NIOSH approved or			
5.5	FILG FI		-	protective gear to preven					
			Section 6. Ac	cidental Releas	e Measures				
6.1		tive Precautions,		ors and provide adequat					
						preathing apparatus, or respirator,			
	-	jency Procedures:				es, and heavy rubber gloves).			
6.2		onmental	Take steps to avoid	release into the environr	nent, if safe to do s	0.			
C 2		utions:	r. Contain anill and cal						
6.3			r Contain spill and col or Transfer to a chemic		sposal in accordan	re with local regulations			
	Up:	Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations.							
	е р.								
			Section 7	. Handling and	Storage				
7.1			-	/fume/gas/mist/vapours/s	spray.				
	in Han		Avoid prolonged or re						
7.2			Keep container tight	-					
	in Sto	ring:	Store in accordance	with information listed or	n the product insert.				
						NA 14: formation			
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Revision: 08/18/2015 Supersedes Revision: 05/01/2015

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:					
CAS # Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations		
56-81-5 Glycerol	ACGIH TLV	TLV: 10 mg/m3	ĺ		
	France VL	TWA: 10 mg/m3			
	OSHA PELs	PEL: 15 (dust); 5 (resp.) mg/m3			
	Britain EH40	TWA: 10 mg/m3 () STEL: ()			
26628-22-8 Sodium azide	ACGIH TLV	CEIL: 0.29 mg/m3			
	Europe	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3	Skin Absorption		
	France VL	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3			
	Britain EH40	TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 ()	Skin Absorption		

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 Personal protection equipment:

Eye Protection:	Safety glasses
Protective Gloves:	Compatible chemical-resistant gloves
Other Protective Clothing	g:Lab coat
Respiratory Equipment	NIOSH approved respirator, as conditions warrant.
(Specify Type):	
Work/Hygienic/Maintena	n 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.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States:	[]Gas [)	X] Liquid	[] Solid	
Appearance and Odor:	500 µl of prote	ein A-purified	polyclona	al antibody
pH:	7.2			
Melting Point:	No data.			
Boiling Point:	No data.			
Flash Pt:	No data.			
Evaporation Rate:	No data.			
Flammability (solid, gas):	No data availa	ble.		
Explosive Limits:	LEL: No data.			UEL: No data.
Vapor Pressure (vs. Air or mm	No data.			
Hg):				
Vapor Density (vs. Air = 1):	No data.			



Page: 4 of 6

	CHEMICAL								0	aperseues nevis	SIGH. 05/01/2015	
-		c Gravity (Water :	= 1):	No da	ita.							
	Solubility in Water:			No data.								
	Octano	Water Partition		No da	ita.							
	Coeffici	ent:										
	Autoigr	ition Pt:		No da	ita.							
	Decom	oosition Tempera	ature:	No da	ita.							
	Viscosi	ty:		No da	ita.							
9.2	Other In	formation										
	Percent	Volatile:		No da	ita.							
			Ś	Sectic	on 10.	Stabilit	y and	Reacti	vity			
10.1	Reactiv	ity:	No da	ata availa	able.							
10.2	Stability	/ :	Unsta	able []	Stabl	le [X]						
10.3	Stability	y Note(s):	Stable	e if store	ed in acco	ordance wit	h informa	tion listed	on the product	insert.		
	Polyme	rization:	Will o	occur [] Will	not occur [[X]					
10.4	Conditi	ons To Avoid:	No da	ata availa	able.							
10.5	Incomp	atibility - Materia	Is strong	g bases								
	To Avoi	d:	stron	g oxidizi	ng agents	3						
10.6	Hazardo	ous	carbo	carbon dioxide								
	Decom	position or	carbon monoxide									
	Byprod	ucts:										
			S	ectior	ו 11. T	oxicolo	ogical	Inform	ation			
11.1	Informa	tion on	The t	The toxicological effects of this product have not been thoroughly studied.								
	Toxicol	ogical Effects:	Sodium azide - Toxicity Data: Oral LD50 (rat): 27 mg/kg; Oral TDLO (woman): 3 mg/kg; Intraperitoneal LDLO (rat): 30 mg/kg; Subcutaneous LD50 (rat): 45100 ug/kg;									
	Chronic	: Toxicological	Sodiu	Sodium azide - Investigated as an agricultural chemical, drug, mutagen, reproductive effector, and								
	Effects:		tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.									
				See actual entry in RTECS for complete information.								
						Number: V						
	nogenicit		NTP?			lonographs	? No		egulated? No			
CAS		Hazardous Cor	•	•	mical Nai	me)		NTP	IARC	ACGIH	OSHA	
	NA	MIF Polyclonal	Antibody	/				n.a.	n.a.	n.a.	n.a.	
56-81-5 Glycerol						n.a.	n.a.	n.a.	n.a.			
	28-22-8	Sodium azide					n.a.	n.a.	A4	n.a.		
7647-14-5 Sodium chloride							n.a.	n.a.	n.a.	n.a.		
777	8-77-0	Potassium phos	sphate, N	Nonobas	sic			n.a.	n.a.	n.a.	n.a.	
755	58-79-4	Sodium phosphate, Dibasic					n.a.	n.a.	n.a.	n.a.		
773	82-18-5	Water						n.a.	n.a.	n.a.	n.a.	
											•	

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Page: 5 of 6

			Section 12. Ecol	ogical Informa	ation					
12.1	Toxicity	Avoid release into the environment.								
			Runoff from fire control or dilut	ion water may cause	pollution.					
12.2	Persiste	ence and	No data available.							
	Degrad	ability:	-							
12.3		mulative No data available.								
	Potentia									
12.4		/ in Soil:	No data available.							
12.5			No data available.							
10.0	assessi									
12.6	Other a	dverse effects:	No data available.							
			Section 13. Dispo							
13.1	Waste I	Disposal Method:			-					
			Section 14. Trar	nsport Informa	ation					
14.1		RANSPORT (US I	-							
		er Shipping Name:	Not dangerous goods.							
	OT Hazar									
	N/NA Nur									
14.1		RANSPORT (Euro								
	N Numbe	hipping Name:	Not dangerous goods.							
_	azard Cla									
14.3		ANSPORT (ICAO/I	ATA):							
		Shipping Name:	, Not dangerous goods.							
	N Numbe			Packing Gr	oup:					
н	azard Cla	ISS:								
Addit	ional Tra	insport	Transport in accordance with I	ocal, state, and fede	ral regulations.					
Infor	nation:									
			Section 15. Regu	latory Inform	ation					
EPA	SARA (Si	uperfund Amendm	nents and Reauthorization Act	of 1986) Lists						
CAS	#	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
	NA	MIF Polyclonal A	ntibody	No	No	No				
56	-81-5	Glycerol		No	No	No				
2662	28-22-8	Sodium azide		Yes 500 LB	Yes 1000 LB	Yes				
764	7-14-5	Sodium chloride		No	No	No				
777	8-77-0	Potassium phosp	hate, Monobasic	No	No	No				
755	8-79-4	Sodium phospha	te, Dibasic	No	Yes 5000 LB	No				
773	2-18-5	Water		No	No	No				
CAS	#	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists					
	NA	MIF Polyclonal A	ntibody	CAA HAP,ODC: PROP.65: No	No; CWA NPDES:	No; TSCA: No; CA				
56	-81-5	B1-5 Glycerol CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No								
						Multi-region format				



Revision: 08/18/2015

cayman			Supersedes Revision: 05/01/2015			
26628-22-8	Sodium azide		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
7647-14-5	Sodium chloride		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
7778-77-0	Potassium phos	phate, Monobasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
7558-79-4	Sodium phospha	ate, Dibasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
7732-18-5	Water		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Regulatory In Statement:	formation	This SDS was prepared in a No.1272/2008.	accordance with 29 CFR 1910.1200 and Regulation (EC)			
		Section 16.	Other Information			
Revision Date	:	08/18/2015				
Additional Info	ormation About	No data available.				
This Product:						
		express or implied, with resp	owever, we make no warranty of merchantability or any other warranty pect to such information, and we assume no liability resulting from its eir own investigations to determine the suitability of the information for			