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4	SAFETY DATA SHEET Page: 1	of 6
	ATG5 Monoclonal Antibody (Clone 1F8) Revision: 09/22/2019	9
	Supersedes Revision: 05/01/201	
accord	ling to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015	
Section 1.	Identification of the Substance/Mixture and of the Company/Undertaking	
Product Code:	28812	
Product Name:	ATG5 Monoclonal Antibody (Clone 1F8)	
Synonyms:	APG5-like; hAPG5; Apoptosis-specific Protein; Autophagy Protein 5; Autophagy Related 5;	
Relevant identified uses	of the substance or mixture and uses advised against:	
Relevant identified uses	s: For research use only, not for human or veterinary use.	
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	
Emergency telephone nu	Imber:	
Emergency Contact:	CHEMTREC Within USA and Canada: +1 (800)424-9300	
	CHEMTREC Outside USA and Canada: +1 (703)527-3887	
	Section 2. Hazards Identification	
Classification of the Subs	stance or Mixture:	
Label Elements:		
GHS Signal Word:	None	
GHS Hazard Phrases:		
Based on evaluation of c	currently available data this substance or mixture is not classifiable according to GHS.	
GHS Precautionary Phr	rases:	
No phrases apply.		
GHS Response Phrase	S:	
No phrases apply.		
GHS Storage and Dispo	osal Phrases:	
Please refer to Section 7	for Storage and Section 13 for Disposal information.	
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.	
	To the best of our knowledge, the toxicological properties have not been thoroughly investigated	۱.
Sec	tion 3. Composition/Information on Ingredients	
1	ponents (Chemical Name)/ Concentration EC No./ GHS Classification	

CAS # / RTECS #	·····		EC No./ EC Index No.	GHS Classification
56-81-5 MA8050000	Glycerol 01-2119471987-18-0000	50.0 %	200-289-5 NA	No GHS classifications apply.
7732-18-5 ZC0110000	Water na	48.794 -48.894 %	231-791-2 NA	No GHS classifications apply.
7647-14-5 VZ4725000	Sodium chloride 01-2119485491-33-0000	0.85 %	231-598-3 NA	No GHS classifications apply.
7558-79-4 WC4500000	Sodium phosphate, Dibasic 01-2119489797-11	0.106 %	231-448-7 NA	Eye Damage 2: H319
9048-46-8 MT6446000	Bovine Serum Albumin (BSA)	0.0 -0.1 %	232-936-2 NA	Acute Tox.(O) 4: H302
NA	ATG5 Monoclonal Antibody (Clone 1F8)	0.01 -0.1 %	NA	No data available.
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	CHEMICAL					Supersedes Revision: 05/01/2015		
NA		<u> </u>			NA			
	8-77-0 15500	Potassium phosphat 01-2119490224-41	e, Monobasic	0.03 %	231-913-4 NA	No GHS classifications apply.		
26628-22-8 VY8050000		Sodium azide 01-2119457019-37		0.02 %	247-852-1 011-004-00-7	Acute Tox.(O) 2: H300 Aquatic (A) 1: H400 Aquatic (C) 1: H410		
			Section 4	4. First Aid Mea	asures			
4.1	Descri	ption of First Aid						
	Measu	res:						
	In Case	e of Inhalation:			ficial respiration or given the second se	ve oxygen by trained personnel.		
			Get immediate medica					
	In Case	e of Skin Contact:	-			5 minutes. Remove contaminated		
			-	attention if symptoms of	-			
	In Case	e of Eye Contact:			of water for at least 1	5 minutes. Have eyes examined		
			and tested by medical	-				
	In Case	e of Ingestion:			-	ive anything by mouth to an ng unless directed to do so by		
			medical personnel.			ig unless directed to do so by		
				Fire Fighting N				
				Fire Fighting N				
5.1		le Extinguishing		foam, carbon dioxide, v	-	spray.		
		Media: Use water spray to cool fire-exposed containers.						
			A solid water stream	may be inefficient.				
	Media:							
5.2	Hazard	-	dEmits toxic fumes und	der fire conditions.				
	nazaru	15.	No data available.					
	Flash F	D+-	No data.					
		ive Limits:	LEL: No data.	UEL: N	o data			
	-	nition Pt:	No data.	OLL. N	o dala.			
5.2	-			olf contained breathing	opporatus procesure d	amond (NIOCH approved or		
5.3	FILE FI	gnting instructions	-	protective gear to preven		emand (NIOSH approved or		
			. / .	•		u eyes.		
				cidental Releas				
6.1		tive Precautions,	÷ .	ors and provide adequat		athing an extra a state		
						eathing apparatus, or respirator, and heavy rubber gloves).		
	-	ency Procedures:						
6.2		nmental	i ake steps to avoid r	elease into the environr	nent, il sale to do so.			
6.2	Precau Methor		Contain chill and call	act as appropriate				
 6.3 Methods and Material For Contain spill and collect, as appropriate. Containment and CleaningTransfer to a chemical waste container for disposal 					sposal in accordance	with local regulations		
	Up:		a randier to a orientito					
	- P .				01			
				Handling and				
7.1			-	fume/gas/mist/vapours/s	spray.			
	in Hand	-	Avoid prolonged or re					
7.2			Keep container tightly					
	in Stor	ing:	Store in accordance v	with information listed or	n the product insert.			
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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			
	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	Skin Absorption		
		STEL: 0.3 mg/m3			
	France VL	TWA: 0.1 mg/m3			
		STEL: 0.3 mg/m3			
	Britain EH40	TWA: 0.1 mg/m3 ()	Skin Absorption		
		STEL: 0.3 mg/m3 ()			

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:

 r ereenar preteenen equi		
Eye Protection:	Safety glasses	
Protective Gloves:	Compatible chemical-resistant gloves	
Other Protective Clothing	:Lab coat	
Respiratory Equipment	NIOSH approved respirator, as conditions warrant.	
(Specify Type):		
Work/Hygienic/Maintenar	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:	100 µg Protein G-purified monoclonal	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 available.	
Explosive Limits:	LEL: No data.	JEL: No data.
Vapor Pressure (vs. Air or mm	No data.	
Hg):		
Vapor Density (vs. Air = 1):	No data.	

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	-	Gravity (Water =	1):	No data.					
		y in Water:		No data.					
	Octanol/ Coefficie	Water Partition ent:		No data.					
	Autoigni	ition Pt:		No data.					
	Decomp	osition Temperat	ture:	No data.					
	Viscosit	y:		No data.					
9.2	Other Inf	ormation							
	Percent	Volatile:		No data.					
			S	Section 10	. Stability a	nd Reacti	vity		
10.1	Reactivi	ty:	No da	ta available.					
10.2	Stability				ible [X]				
10.3	-	Note(s):	Stable	e if stored in acc	cordance with info	ormation listed of	on the product	insert.	
	Polymer	ization:	Will o	ccur[] W	ill not occur [X]				
10.4	Conditio	ons To Avoid:	No da	ta available.					
10.5	-	atibility - Material	-						
	To Avoid			oxidizing ager	nts				
10.6	Hazardo			n dioxide					
	-	osition or	carbo	n monoxide					
	Byprodu	icts:							
			Se	ection 11.	Toxicologic	cal Informa	ation		
11.1	Informat	tion on	The toxicological effects of this product have not been thoroughly studied.						
	Toxicolo	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; Sodium azide - Investigated as an agricultural chemical, drug, mutagen, reproductive effector, and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. 						
		Toxicological							
	Effects:								
			See actual entry in RTECS for complete information.						
				-	S Number: VY80				
Carcir	nogenicity	y :	NTP?	No IARC	Monographs? No	OSHA Re	egulated? No		
CAS	#	Hazardous Com	nponen	ts (Chemical N	lame)	NTP	IARC	ACGIH	OSHA
56	-81-5	Glycerol				n.a.	n.a.	n.a.	n.a.
773	2-18-5	Water				n.a.	n.a.	n.a.	n.a.
764	7-14-5	Sodium chloride				n.a.	n.a.	n.a.	n.a.
755	8-79-4	Sodium phospha	ite, Diba	asic		n.a.	n.a.	n.a.	n.a.
9048-46-8 Bovine Serum Al		Bovine Serum Al	bumin ((BSA)		n.a.	n.a.	n.a.	n.a.
	NA ATG5 Monoclonal			ody (Clone 1F8)	n.a.	n.a.	n.a.	n.a.
	1.17.1	1	hata N	Ionobasic		n.a.	n.a.	n.a.	n.a.
	8-77-0	Potassium phosp	mate, n						

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			Section 12. Ecol	ogical Inform	ation				
12.1									
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	ence and	No data available.						
	Degrad	ability:							
12.3	Bioaccu Potentia	umulative	No data available.						
12.4			No data available.						
	-	r in Soil:	No data available.						
12.5	assessi		no data avaliable.						
12.6		dverse effects:	No data available.						
12.0	Other a			cal Consider	ations				
13.1	Waste [Disposal Method:	Section 13. Dispo Dispose in accordance with lo						
	114010		Section 14. Tra		•				
					allon				
14.1		RANSPORT (US E	-						
	-	er Shipping Name:	Not dangerous goods.						
	OT Hazar N/NA Nur								
14.1									
		RANSPORT (Euro hipping Name:	Not dangerous goods.						
	N Numbe		Not dangerous goods.						
_	azard Cla								
14.3	AIR TR	ANSPORT (ICAO/I	ATA):						
		Shipping Name:	Not dangerous goods.						
	N Numbe		0 0	Packing G	roup:				
Н	azard Cla	SS:							
Addit	ional Tra	nsport	Transport in accordance with	local, state, and fede	eral regulations.				
Infor	mation:								
			Section 15. Reg	ulatory Inform	ation				
EPA	SARA (Si	uperfund Amendm	ents and Reauthorization Ac	t of 1986) Lists					
CAS	#	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
56	-81-5	Glycerol		No	No	No			
773	2-18-5	Water		No	No	No			
764	7-14-5	Sodium chloride		No	No	No			
755	8-79-4	Sodium phosphat	e, Dibasic	No	Yes 5000 LB	No			
904	8-46-8	Bovine Serum All	oumin (BSA)	No	No	No			
	NA	ATG5 Monoclona	l Antibody (Clone 1F8)	No	No	No			
777	8-77-0	Potassium phosp	hate, Monobasic	No	No	No			
2662	28-22-8	Sodium azide		Yes 500 LB	Yes 1000 LB	Yes			

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CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists
56-81-5	Glycerol	· · · ·	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
7647-14-5	Sodium chloride		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
7558-79-4	Sodium phospha	te, Dibasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
9048-46-8	Bovine Serum Al	bumin (BSA)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory: Active; CA PROP.65: No
NA	ATG5 Monoclona	al Antibody (Clone 1F8)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
7778-77-0	Potassium phosp	hate, Monobasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
26628-22-8	Sodium azide		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
Regulatory Inf Statement:	ormation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFR 1910.1200 and Regulation (EC)
		Section 16. Oth	ner Information
Revision Date:		09/22/2019	
Additional Info	ormation About	No data available.	
		express or implied, with respect	er, we make no warranty of merchantability or any other warranty to such information, and we assume no liability resulting from its wn investigations to determine the suitability of the information fo
			Multi-region for