

SAFETY DATA SHEET Citrullinated Vimentin Monoclonal Antibody (Clone 12G11)

Revision: 05/28/2017

			ding to Regulation (EC) No. 190						
		Section 1. Id	lentification of the Substar	nce/Mixture and of	the Company/U	ndertaking			
1.1	Product	Code:	22054						
	Product	Name:	Citrullinated Vimentin Mo	onoclonal Antibody ((Clone 12G11)				
1.2	Relevan	t identified uses of	the substance or mixture a	and uses advised a	against:				
	Releva	ant identified uses:	For research use only, n	ot for human or vete	erinary use.				
1.3	Details	of the Supplier of th	e Safety Data Sheet:						
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany					
	Web s	ite address:	www.caymanchem.com						
	Inform	nation:	Cayman Chemical Comp	bany	+1 (734	4)971-3335			
1.4	Emerge	ncy telephone num	ber:						
	Emerg	ency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300			
			CHEMTREC Outside US	SA and Canada:	+1 (70	3)527-3887			
			Section 2. Ha	zards Identifi	cation				
2.1	Classifi	cation of the Substa	ince or Mixture:						
2.2	Label El	lements:							
	GHS S	Signal Word:	None						
	GHS H	Hazard Phrases:							
	Based	on evaluation of currently available data this substance or mixture is not classifiable according to GHS.							
		Precaution Phrases:							
	-	rases apply.							
		Response Phrases:							
	-	rases apply.							
		Storage and Dispose		n Dian a sal informatio					
2.3			r Storage and Section 13 for Causes mild skin irritation.	r Disposar informatio	Jn.				
2.5			Causes serious eye irritation	L.					
			Material may be irritating to the mucous membranes and upper respiratory tract.						
		r	May be harmful by inhalatior	n, ingestion, or skin a	absorption.				
			May cause respiratory syste						
		-	To the best of our knowledge	e, the toxicological p	properties have not	been thoroughly investigated.			
		Sectio	on 3. Composition	n/Information	on Ingredie	nts			
CAS	5#/	Hazardous Compo	nents (Chemical Name)/	Concentration	EC No./	GHS Classification			
RTE	CS #	REACH Registratio	on No.		EC Index No.				
NA NA		Citrullinated Vimentin I 12G11)	Monoclonal Antibody (Clone	0.0 -0.1 %	NA	No data available.			
	6-81-5	Glycerol		50.0.%	NA 200 280 5	No data available			
	050000			50.0 %	200-289-5 NA	No data available.			
	48-46-8 446000	Bovine Serum Albumir	n (BSA)	0.1 %	232-936-2 NA	Acute Tox.(O) 4: H302			
	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			
764	47-14-5	Sodium chloride		0.85 %	231-598-3	No data available.			



VZ4725000 7778-77-0 TC6615500 7558-79-4 WC4500000 7732-18-5 ZC0110000

4.1

5.1

5.2

5.3

6.1

6.2

6.3

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/		Citrullinated Vime	entin Monoclo	onal Antibo	dy Revision: 05/28/2017		
		(Cl	one 12G11)		1		
5000				NA			
-77-0 5500	Potassium phosphat	e, Monobasic	0.03 %	231-913-4 NA	No data available.		
-79-4)0000	Sodium phosphate, I	Dibasic	0.106 %	231-448-7 NA	Eye Damage 2: H319		
-18-5 0000	Water		48.794 -48.894 %	231-791-2 NA	No data available.		
		Section 4. Fir	st Aid Measu	res			
Descrip	tion of First Aid						
Measur	es:						
In Case	of Inhalation:	Remove to fresh air. If not bre Get immediate medical attenti		respiration or giv	e oxygen by trained personnel.		
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 pr unconscious person. Get med medical personnel.	-	-			
		Section 5. Fire	Fighting Mea	sures			
Suitable	e Extinguishing	Use alcohol-resistant foam, c			spray.		
Media:		Use water spray to cool fire-e		-			
Unsuita Media:	ble Extinguishing	A solid water stream may be	inefficient.				
		dEmits toxic fumes under fire o	conditions.				
Hazard	5.	No data available.					
Flash P	4 -	No data.					
	ve Limits:	LEL: No data.	UEL: No dat	ta			
-	nition Pt:	No data.					
-		: As in any fire, wear self-conta		-			
		equivalent), and full protective			a eyes.		
		Section 6. Acciden	tal Release M	leasures			
	ive Precautions,	Avoid breathing vapors and p	-				
					athing apparatus, or respirator,		
Emerge	ency Procedures:	and appropriate personal pro			and heavy rubber gloves).		
Enviror		Take steps to avoid release i	nto the environment,	, if safe to do so.			
Precaut		_					
		Contain spill and collect, as a		-1: '	udde te est es suis d		
	ment and Cleanin	g Transfer to a chemical waste	container for dispos	ai in accordance	with local regulations.		
Up:							

Multi-region format



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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 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:

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/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.



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	Sec	ction 9. Physical and Chemical Properties
9.1	Information on Basic Physica	al and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	PBS, pH 7.2, containing 50% glycerol with 0.1% BSA and 0.02% sodium azide
	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. UEL: No data.
	Vapor Pressure (vs. Air or m	nm No data.
	Hg):	
	Vapor Density (vs. Air = 1):	No data.
	Specific Gravity (Water = 1):	No data.
	Solubility in Water:	No data.
	Octanol/Water Partition	No data.
	Coefficient:	
	Autoignition Pt:	No data.
	Decomposition Temperature	e: No data.
	Viscosity:	No data.
9.2	Other Information	
	Percent Volatile:	No data.
		Section 10. Stability and Reactivity
10.1	Reactivity: N	lo data available.
10.2	Stability: U	Instable [] Stable [X]
10.3	Stability Note(s): Stability Note(s):	table if stored in accordance with information listed on the product insert.
	Polymerization: W	Vill occur [] Will not occur [X]
10.4	Conditions To Avoid: N	lo data available.
10.5	Incompatibility - Materials st	trong bases
	To Avoid: st	trong oxidizing agents
10.6	Hazardous ca	arbon dioxide
	Decomposition or Ca	arbon monoxide
	Byproducts:	

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			Section 11. Toxicological	Inform	ation			
11.1	Informat	ion on	The toxicological effects of this product ha	ve not bee	n thoroughly st	udied.		
Toxicological Effects:		gical Effects:	Glycerol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 500 mg (24h) mild;					
	Chronic	Toxicological	Glycerol - Investigated as a mutagen, repr	oductive ef	ffector, and tun	norigen.		
	Effects:		Only select Registry of Toxic Effects of Ch			CS) data is pre	sented here.	
			See actual entry in RTECS for complete in	formation.				
0			Glycerol RTECS Number: MA8050000		e sudete d'Alle			
	nogenicity	I	NTP? No IARC Monographs? No	1	egulated? No	4000	00114	
CAS			nponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	NA		entin Monoclonal Antibody (Clone 12G11)	n.a.	n.a.	n.a.	n.a.	
	S-81-5	Glycerol		n.a.	n.a.	n.a.	n.a.	
	18-46-8	Bovine Serum A	ibumin (BSA)	n.a.	n.a.	n.a.	n.a.	
	28-22-8	Sodium azide		n.a.	n.a.	A4	n.a.	
	17-14-5	Sodium chloride		n.a.	n.a.	n.a.	n.a.	
	78-77-0		phate, Monobasic	n.a.	n.a.	n.a.	n.a.	
	58-79-4	Sodium phospha	ate, Dibasic	n.a.	n.a.	n.a.	n.a.	
773	32-18-5	Water		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecological Ir	nformat	tion			
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	mulative	No data available.					
	Potentia	1:						
12.4	Mobility	in Soil:	No data available.					
12.5	Results	of PBT and vPvE	3 No data available.					
	assessm	nent:						
12.6 Other adverse effects: No data available.								
	Section 13. Disposal Considerations							
13.1	Waste D	isposal Method:	Dispose in accordance with local, state, an	nd federal r	regulations.			
			Section 14. Transport In	nformat	tion			
14.1	LAND T	RANSPORT (US	DOT):					
c	OT Prope	r Shipping Name	: Not dangerous goods.					
C	OT Hazar	d Class:						
u	IN/NA Nun	nber:						
14.1	LAND T	RANSPORT (Eur	ropean ADR/RID):					
A	DR/RID S	hipping Name:	Not dangerous goods.					
u	IN Numbe	r:						
н	lazard Cla	SS:						



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14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: N

Not dangerous goods.

Additional Transport

Transport in accordance with local, state, and federal regulations.

Information:

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986)	Lists
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CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
NA	Citrullinated Vimentin Monoclonal Antibody (Clone 12G11)	No	No	No
56-81-5	Glycerol	No	No	No
9048-46-8	Bovine Serum Albumin (BSA)	No	No	No
26628-22-8	Sodium azide	Yes 500 LB	Yes 1000 LB	Yes
7647-14-5	Sodium chloride	No	No	No
7778-77-0	Potassium phosphate, Monobasic	No	No	No
7558-79-4	Sodium phosphate, Dibasic	No	Yes 5000 LB	No
7732-18-5	Water	No	No	No
CAS #	Hazardous Components (Chemical Name)	Other US EPA o	r State Lists	·
NA	Citrullinated Vimentin Monoclonal Antibody (Clone 12G11)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
56-81-5	Glycerol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
9048-46-8	Bovine Serum Albumin (BSA)	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		
7647-14-5	Sodium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
7778-77-0	Potassium phosphate, Monobasic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
7558-79-4	Sodium phosphate, 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 Information This SDS was prepared in according to the second statement: No.1272/2008.		dance with 29 CF	R 1910.1200 and Re	gulation (EC)
	Section 16. Oth	er Informati	on	
Revision Date: 05/28/2017				
Additional Info	ormation About No data available.			
	cy or Disclaimer: DISCLAIMER: This information is	s believed to be a	ccurate and represer	ts the best information

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