

Revision: 09/09/2015

-	CHEMICAL		
	accor	ding to Regulation (EC) No. 1907/2006 as amended by (E	EC) No. 1272/2008
	Section 1. Id	lentification of the Substance/Mixture and of the	e Company/Undertaking
1	Product Code: Product Name:	10011390 Mn SOD (human) Polyclonal Antibody	
	Synonyms:	Manganese Superoxide Dimutase;	
2	Relevant identified uses of	the substance or mixture and uses advised aga	inst:
	Relevant identified uses:	For research use only, not for human or vetering	ary use.
3	Details of the Supplier of th	e 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
4	Emergency telephone num	ber:	
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887
	Classification of the Substa Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye Label Elements:	egory 3 Category 3	
	Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye	nce or Mixture: egory 3 Category 3	
	Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye	nce or Mixture: egory 3 Category 3	
	Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye Label Elements:	ance or Mixture: egory 3 Category 3 Irritation, Category 2	
	Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye Label Elements:	ance or Mixture: egory 3 Category 3 Irritation, Category 2	
	Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye Label Elements: GHS Signal Word: GHS Hazard Phrases:	ance or Mixture: egory 3 Category 3 Irritation, Category 2 Danger	
	Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H316: Causes mild skin irrit	ance or Mixture: egory 3 Category 3 Irritation, Category 2 Danger tation. irritation.	
	Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H316: Causes mild skin irrit H319: Causes serious eye GHS Precaution Phrases: P264: Wash {hands} thorou	ance or Mixture: egory 3 Category 3 Irritation, Category 2 Danger tation. irritation.	
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	Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H316: Causes mild skin irrit H319: Causes serious eye GHS Precaution Phrases: P264: Wash {hands} thorou P280: Wear {protective glow GHS Response Phrases: P301+310: IF SWALLOWE	ance or Mixture: egory 3 Category 3 Irritation, Category 2 Danger tation. irritation. irritation. irritation. : ughly after handling. ves/protective clothing/eye protection/face protection D: Immediately call a POISON CENTER or doctor/	n}. physician.
	Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H316: Causes mild skin irrit H319: Causes serious eye GHS Precaution Phrases: P264: Wash {hands} thorou P280: Wear {protective glow GHS Response Phrases: P301+310: IF SWALLOWE P305+351+338: IF IN EYES to do. Continue rinsing. P330: Rinse mouth.	ance or Mixture: egory 3 Category 3 Irritation, Category 2 Danger tation. irritation. irritation. irritation. : ughly after handling. ves/protective clothing/eye protection/face protection D: Immediately call a POISON CENTER or doctor/	n}. physician.
	Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H316: Causes mild skin irrit H319: Causes serious eye GHS Precaution Phrases: P264: Wash {hands} thorou P280: Wear {protective glow GHS Response Phrases: P301+310: IF SWALLOWE P305+351+338: IF IN EYES to do. Continue rinsing. P330: Rinse mouth. P332+313: If skin irritation of	ance or Mixture: egory 3 Category 3 Irritation, Category 2 Danger tation. irritation. irritation. : ughly after handling. ves/protective clothing/eye protection/face protection D: Immediately call a POISON CENTER or doctor/ S: Rinse cautiously with water for several minutes.	n}. physician.
1	Acute Toxicity: Oral, Cate Skin Corrosion/Irritation, Serious Eye Damage/Eye Label Elements: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H316: Causes mild skin irrit H319: Causes serious eye GHS Precaution Phrases: P264: Wash {hands} thorou P280: Wear {protective glow GHS Response Phrases: P301+310: IF SWALLOWE P305+351+338: IF IN EYES to do. Continue rinsing. P330: Rinse mouth. P332+313: If skin irritation of	ance or Mixture: egory 3 Category 3 Irritation, Category 2 Danger tation. irritation. irritation. irritation. 2 ughly after handling. ves/protective clothing/eye protection/face protection D: Immediately call a POISON CENTER or doctor// S: Rinse cautiously with water for several minutes. Doccurs, get medical advice/attention. bersists, get medical advice/attention.	n}. physician.



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2.3 Adverse Human Health Causes mild skin and serious eye irritation.
Effects and Symptoms: Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation or skin absorption.
May cause respiratory system irritation.
Toxic if swallowed.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA	Mn SOD (human) Polyclonal Antibody	0.0 -0.1 %	NA NA	No data available.
56-81-5 MA8050000	Glycerol	50.0 %	200-289-5 NA	Skin Corr. 3: H316 Eye Damage 2B: H320
26628-22-8 VY8050000	Sodium azide	0.1 %	247-852-1 011-004-00-7	Acute Tox.(O) 2: H300 Aquatic (A) 1: H400 Aquatic (C) 1: H410
7647-14-5 VZ4725000	Sodium chloride	0.85 %	231-598-3 NA	Eye Damage 2A: H319
7778-77-0 TC6615500	Potassium phosphate, Monobasic	0.03 %	231-913-4 NA	Skin Corr. 1B: H314 Eye Damage 1: H318
7558-79-4 WC4500000	Sodium phosphate, Dibasic	0.106 %	231-448-7 NA	Eye Damage 2: H319
7732-18-5 ZC0110000	Water	48.814 -98.914 %	231-791-2 NA	No data available.

Section 4. First Aid Measures

4.1	Description of First Aid	
	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.



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5.1	Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.								
	Media:	Media: Use water spray to cool fire-exposed containers.							
	Unsuita	Unsuitable Extinguishing A solid water stream may be inefficient.							
	Media:								
.2	Flamma	able Properties andEmits toxic fumes un	der fire conditions.						
	Hazards:								
		No data available.							
	Flash P	Pt: No data.							
	-	ive Limits: LEL: No data.	UEL: No	o data.					
	Autoigr	nition Pt: No data.							
.3	Fire Fig	hting Instructions: As in any fire, wear s	-		(NIOSH approved or				
		equivalent), and full p	protective gear to prevent	contact with skin and eyes.					
		Section 6. Ac	cidental Release	e Measures					
.1			ors and provide adequate						
	Protect	ive Equipment and As conditions warran							
	Emerge	ency Procedures: and appropriate pers	sonal protection (rubber b	oots, safety goggles, and he	eavy rubber gloves).				
2	Enviror	Immental Take steps to avoid	release into the environm	ent, if safe to do so.					
	Precaut	Precautions:							
	Methods and Material For Contain spill and collect, as appropriate.								
.3	Method	Is and Material For Contain spill and col							
.3	Method Contair			sposal in accordance with loc	cal regulations.				
.3	Method	Is and Material For Contain spill and col		posal in accordance with loc	cal regulations.				
.3	Method Contair	Is and Material For Contain spill and colored and Cleaning Transfer to a chemic			cal regulations.				
	Method Contair Up:	Is and Material For Contain spill and colored and Cleaning Transfer to a chemic	cal waste container for dis	Storage	cal regulations.				
	Method Contair Up:	Is and Material For Contain spill and column to a chemic frame to a chemic section 7 for the section 7 for the section 7 for the section for t	cal waste container for dis . Handling and S /fume/gas/mist/vapours/s	Storage	cal regulations.				
.1	Method Contain Up: Precaut in Hanc	Is and Material For Contain spill and column to a chemic frame to a chemic section 7 for the section 7 for the section 7 for the section for t	cal waste container for dis . Handling and s /fume/gas/mist/vapours/s epeated exposure.	Storage	cal regulations.				
.1	Method Contain Up: Precaut in Hanc	Is and Material For Contain spill and column and Cleaning Transfer to a chemic Section 7, tions To Be Taken Avoid breathing dust alling: Avoid prolonged or retions To Be Taken Keep container tight	cal waste container for dis . Handling and s /fume/gas/mist/vapours/s epeated exposure.	Storage pray.	cal regulations.				
.1	Method Contair Up: Precaut in Hanc Precaut	Is and Material For Contain spill and column and Cleaning Transfer to a chemic Section 7, tions To Be Taken Avoid breathing dust alling: Avoid prolonged or retions To Be Taken Keep container tight	cal waste container for dis . Handling and S /fume/gas/mist/vapours/s epeated exposure. y closed. with information listed on	Storage pray. the product insert.	cal regulations.				
.1 .2	Method Contair Up: Precaut in Hanc Precaut	Is and Material For Contain spill and columnment and CleaningTransfer to a chemic Section 7. Itions To Be Taken Avoid breathing dust alling: Avoid prolonged or retions To Be Taken Keep container tight fing: Store in accordance	cal waste container for dis . Handling and S /fume/gas/mist/vapours/s epeated exposure. y closed. with information listed on	Storage pray. the product insert.	cal regulations.				
.1 .2	Method Contair Up: Precaut in Hand Precaut in Stori	Is and Material For Contain spill and column and Cleaning Transfer to a chemic Section 7 tions To Be Taken Avoid breathing dust dling: Avoid prolonged or retions To Be Taken Keep container tight fing: Store in accordance Section 8. Exposu	cal waste container for dis . Handling and S /fume/gas/mist/vapours/s epeated exposure. y closed. with information listed on	Storage pray. the product insert.	cal regulations.				
.1 .2 .1 CAS :	Method Contair Up: Precaut in Hand Precaut in Stori	Is and Material For Contain spill and column and Cleaning Transfer to a chemic Section 7, tions To Be Taken Avoid breathing dust alling: Avoid prolonged or retions To Be Taken Keep container tighting: Store in accordance Section 8. Exposure Parameters:	cal waste container for dis . Handling and S /fume/gas/mist/vapours/s epeated exposure. y closed. with information listed on ure Controls/Pers	Storage pray. the product insert. sonal Protection					
.1 .2 .1 :AS ;	Method Contair Up: Precaut in Hand Precaut in Stori Exposu	Is and Material For Contain spill and column and Cleaning Transfer to a chemic Section 7 tions To Be Taken Avoid breathing dust Avoid prolonged or retions To Be Taken Keep container tighting: Store in accordance Section 8. Exposure Parameters: Partial Chemical Name	cal waste container for dis . Handling and S /fume/gas/mist/vapours/s epeated exposure. y closed. with information listed on ure Controls/Pers Britain EH40	Storage pray. the product insert. Sonal Protection France VL	Europe				
1 2 1 56	Method Contair Up: Precaut in Hanc Precaut in Stori Exposut #	Is and Material For Contain spill and colument and CleaningTransfer to a chemic Section 7 tions To Be Taken Avoid breathing dust Avoid prolonged or re- tions To Be Taken Keep container tightling: Store in accordance Section 8. Exposu re Parameters: Partial Chemical Name Mn SOD (human) Polyclonal Antibody	cal waste container for dis . Handling and S /fume/gas/mist/vapours/s epeated exposure. y closed. with information listed on ure Controls/Pers Britain EH40 No data. TWA: 10 mg/m3 () STEL: () TWA: 0.1 mg/m3 ()	Storage pray. the product insert. Sonal Protection France VL No data. TWA: 10 mg/m3 TWA: 0.1 mg/m3	Europe No data. No data. TWA: 0.1 mg/m3				
1 2 1 56 2662	Method Contair Up: Precaut in Hand Precaut in Stori Exposut # NA -81-5	Is and Material For Contain spill and colument and CleaningTransfer to a chemic Section 7 tions To Be Taken Avoid breathing dust Avoid prolonged or re tions To Be Taken Keep container tight ing: Store in accordance Section 8. Exposu re Parameters: Partial Chemical Name Mn SOD (human) Polyclonal Antibody Glycerol Sodium azide	A waste container for dis . Handling and S /fume/gas/mist/vapours/s epeated exposure. y closed. with information listed on URE Controls/Pers Britain EH40 No data. TWA: 10 mg/m3 () STEL: () TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 ()	Storage pray. the product insert. Sonal Protection France VL No data. TWA: 10 mg/m3 STEL: 0.3 mg/m3	Europe No data. No data. TWA: 0.1 mg/m3 STEL: 0.3 mg/m3				
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56 2662 764 777 755	Method Contair Up: Precaut in Hanc Precaut in Stori Exposu # NA -81-5 28-22-8 7-14-5	Is and Material For Contain spill and colument and CleaningTransfer to a chemic Section 7 to Be Taken Avoid breathing dust Avoid prolonged or retions To Be Taken Keep container tighting: Store in accordance Section 8. Exposure Parameters: Partial Chemical Name Mn SOD (human) Polyclonal Antibody Glycerol Sodium azide Sodium chloride	cal waste container for dis . Handling and S /fume/gas/mist/vapours/s epeated exposure. y closed. with information listed on Jre Controls/Pers Britain EH40 No data. TWA: 10 mg/m3 () STEL: () TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 () No data.	Storage pray. the product insert. Sonal Protection France VL No data. TWA: 10 mg/m3 TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 No data.	Europe No data. No data. TWA: 0.1 mg/m3 STEL: 0.3 mg/m3 No data.				



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CAS # Partial Chemical Name			OSHA TV	VA	ACGIH TWA	Other Limits	
	NA	Mn SOD (human) Polycl	onal Antibod	y No data.		No data.	No data.
56-81-5 Glycerol			-	dust); 5 (resp.)	TLV: 10 mg/m3	No data.	
26628-22-8 Sodium azide			No data.		CEIL: 0.29 mg/m3	No data.	
7647-14-5 Sodium chloride			No data.		No data.	No data.	
7778-77-0 Potassium phosphate, Mo		lonobasic	No data.		No data.	No data.	
7558-79-4 Sodium phosphate, Diba			No data.		No data.	No data.	
7732-18-5 Water			No data.		No data.	No data.	
3.2		e Controls:					
3.2.1 3.2.2	(Ventila Persona Eye Pro	tion etc.): levels al protection equipment tection: Safet	below recor	osures, local ex nmended expo		n, or other engineering	controls to control airbo
	Protecti	ve Gloves: Comp	atible chemi	ical-resistant gl	oves		
	Other P	rotective Clothing:Lab c	oat				
	Respira	tory Equipment NIOS	H approved	respirator, as c	conditions warra	nt.	
	(Specify	/ Туре):					
	-	ygienic/Maintenan Do no		-			
	-	Hoose Facilit	r utilizina this r	naterial should l	he equinned with an ev	ewash and a safety sho	
	ce Pract		-	-			
	ce Praci	Wash	thoroughly a	after handling.			
	ce Praci	Wash	-	after handling.			
	ce Pract	Wash No da	thoroughly a thoroughly a thoroughly a	after handling.		I Properties	
9.1		Wash No da	a thoroughly a ata available.	after handling. ysical and			
9.1	Informat	Wash No da Sectic	a thoroughly a ata available.	after handling. ysical and			
9.1	Informat Physica	Wash No da Sectic ion on Basic Physical a	thoroughly a ata available. on 9. Ph nd Chemica	after handling. YSICAL ANG	d Chemica		
).1	Informat Physica	Wash No da Sectic ion on Basic Physical a I States:	thoroughly a ata available. on 9. Ph nd Chemica [] Gas	after handling. YSICAL ANG	d Chemica		
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0.1	Informat Physica Appeara pH: Melting Boiling Flash Pt	Wash No da Sectic ion on Basic Physical a I States: ance and Odor: Point: Point:	thoroughly a ata available. on 9. Ph nd Chemica [] Gas Solution 7.0 No data. No data.	after handling. YSICAL ANG	d Chemica		
9.1	Informat Physica Appeara pH: Melting Boiling Flash Pt Evapora	Wash No da Sectio ion on Basic Physical an I States: ance and Odor: Point: Point: t:	thoroughly a ata available. on 9. Ph nd Chemica [] Gas Solution 7.0 No data. No data. No data.	after handling. ysical and I Properties [X] Liquid	d Chemica		
0.1	Informat Physica Appeara pH: Melting Boiling Flash Pt Evapora Flamma	Wash No da Sectio ion on Basic Physical a I States: ance and Odor: Point: Point: t: ation Rate:	thoroughly a ata available. on 9. Ph nd Chemica [] Gas Solution 7.0 No data. No data. No data. No data.	after handling. YSICAL ANG I Properties [X] Liquid <i>r</i> ailable.	d Chemica		
9.1	Informat Physica Appeara pH: Melting Boiling Flash Pt Evapora Flamma Explosit	Wash No da Sectio ion on Basic Physical a I States: ance and Odor: Point: Point: t: ation Rate: bility (solid, gas):	thoroughly a ata available. on 9. Ph nd Chemica [] Gas Solution 7.0 No data. No data. No data. No data. No data av	after handling. YSICAL ANG I Properties [X] Liquid <i>r</i> ailable.	d Chemica	I Properties	
0.1	Informat Physica Appeara pH: Melting Boiling Flash Pt Evapora Flamma Explosiv Vapor P Hg):	Wash No da Section ion on Basic Physical and I States: ance and Odor: Point: Point: t: ation Rate: bility (solid, gas): ve Limits:	thoroughly a ata available. on 9. Ph nd Chemica [] Gas Solution 7.0 No data. No data. No data. No data. No data av LEL: No d	after handling. YSICAL ANG I Properties [X] Liquid <i>r</i> ailable.	d Chemica	I Properties	
9.1	Informat Physica Appeara pH: Melting Boiling Flash Pt Evapora Flamma Explosiv Vapor P Hg): Vapor D	Wash No da Section ion on Basic Physical and I States: ance and Odor: Point: Point: t: ation Rate: bility (solid, gas): ve Limits: ressure (vs. Air or mm	thoroughly a ata available. on 9. Ph nd Chemica [] Gas Solution 7.0 No data. No data. No data. No data. No data av LEL: No d No data.	after handling. YSICAL ANG I Properties [X] Liquid <i>r</i> ailable.	d Chemica	I Properties	
9.1	Informat Physica Appeara pH: Melting Boiling Flash Pf Evapora Flamma Explosit Vapor P Hg): Vapor D Specific	Wash No da Section ion on Basic Physical and I States: ance and Odor: Point: Point: t: ation Rate: bility (solid, gas): ve Limits: ressure (vs. Air or mm pensity (vs. Air = 1):	thoroughly a ata available. on 9. Ph nd Chemica [] Gas Solution 7.0 No data. No data. No data. No data av LEL: No d No data. No data.	after handling. YSICAL ANG I Properties [X] Liquid <i>r</i> ailable.	d Chemica	I Properties	



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9.2	Other left	ormation						
).2		formation	N 1 1					
	Percent	Volatile:	No data.					
			Section 10. Stability an	d Reactiv	vity			
10.1	1 Reactivity: No data available.							
10.2	Stability	/:	Unstable [] Stable [X]					
10.3	Stability	v Note(s):	Stable if stored in accordance with information listed on the product insert.					
	Polyme	rization:	Will occur [] Will not occur [X]					
10.4	Conditio	ons To Avoid:	No data available.					
0.5	Incompa	atibility - Materials	strong bases					
To Avoid:		d:	strong oxidizing agents					
0.6	Hazardo	ous	carbon dioxide					
	Decomp	osition or	carbon monoxide					
	Byprodu	ucts:						
			Section 11. Toxicologica	I Informa	ation			
1.1	Information	tion on	The toxicological effects of this product h	nave not been	thoroughly st	udied.		
	Toxicolo	ogical Effects:	Glycerol - Irritation Data: Eyes (rabbit): 5	500 mg (24h) r	mild; Skin (rab	bit): 500 mg (2	4h) mild;	
	Chronic	Toxicological	Glycerol - Investigated as a mutagen, re	productive eff	ector, and tur	norigen.		
	Effects:		Only select Registry of Toxic Effects of C	Chemical Sub	stances (RTE	CS) data is pre	sented here.	
			See actual entry in RTECS for complete	information.				
			Glycerol RTECS Number: MA8050000					
Carcin	nogenicity	y:	NTP? No IARC Monographs? No	OSHA Re	gulated? No			
CAS #	ŧ	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
			Polyclonal Antibody	n.a.	n.a.	n.a.	n.a.	
	NA	ININ SOD (numan)	T ofycional / Intibody	11.a.				
	NA -81-5	Glycerol		n.a.	n.a.	n.a.	n.a.	
56-					n.a.	n.a. A4	n.a. n.a.	
56- 2662	-81-5	Glycerol		n.a.				
56- 2662 7647	-81-5 28-22-8	Glycerol Sodium azide		n.a. n.a.	n.a.	A4	n.a.	
56- 2662 7647 7778	-81-5 28-22-8 7-14-5	Glycerol Sodium azide Sodium chloride	hate, Monobasic	n.a. n.a. n.a.	n.a.	A4 n.a.	n.a. n.a.	
56- 2662 7647 7778 7558	-81-5 28-22-8 7-14-5 8-77-0 8-79-4	Glycerol Sodium azide Sodium chloride Potassium phosp	hate, Monobasic	n.a. n.a. n.a. n.a.	n.a. n.a. n.a.	A4 n.a. n.a.	n.a. n.a. n.a.	
56- 2662 7647 7778 7558	-81-5 28-22-8 7-14-5 8-77-0	Glycerol Sodium azide Sodium chloride Potassium phosp Sodium phosphat	hate, Monobasic re, Dibasic	n.a. n.a. n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a. n.a.	A4 n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	
56- 2662 7647 7778 7558 7732	-81-5 28-22-8 7-14-5 8-77-0 8-79-4 2-18-5	Glycerol Sodium azide Sodium chloride Potassium phosp Sodium phosphat Water	hate, Monobasic re, Dibasic Section 12. Ecological	n.a. n.a. n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a. n.a.	A4 n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	
56- 2662 7647 7778 7558 7732	-81-5 28-22-8 7-14-5 8-77-0 8-79-4	Glycerol Sodium azide Sodium chloride Potassium phosp Sodium phosphat Water	hate, Monobasic re, Dibasic Section 12. Ecological Avoid release into the environment.	n.a. n.a. n.a. n.a. n.a. n.a. Informati	n.a. n.a. n.a. n.a. n.a.	A4 n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	
56- 2662 7647 7778 7558 7732	-81-5 28-22-8 7-14-5 8-77-0 8-79-4 2-18-5 Toxicity	Glycerol Sodium azide Sodium chloride Potassium phosp Sodium phosphat Water	hate, Monobasic te, Dibasic Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water	n.a. n.a. n.a. n.a. n.a. n.a. Informati	n.a. n.a. n.a. n.a. n.a.	A4 n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	
56- 2662 7647 7778 7558 7732	-81-5 28-22-8 7-14-5 8-77-0 8-79-4 2-18-5 Toxicity Persiste	Glycerol Sodium azide Sodium chloride Potassium phosp Sodium phosphat Water	hate, Monobasic re, Dibasic Section 12. Ecological Avoid release into the environment.	n.a. n.a. n.a. n.a. n.a. n.a. Informati	n.a. n.a. n.a. n.a. n.a.	A4 n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	
56- 2662 7647 7778 7558 7732	-81-5 28-22-8 7-14-5 8-77-0 8-79-4 2-18-5 Toxicity Persiste Degrada	Glycerol Sodium azide Sodium chloride Potassium phosp Sodium phosphat Water	hate, Monobasic te, Dibasic Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available.	n.a. n.a. n.a. n.a. n.a. n.a. Informati	n.a. n.a. n.a. n.a. n.a.	A4 n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	
56- 2662 7647 7778 7558 7732 12.1	-81-5 28-22-8 7-14-5 8-77-0 8-79-4 2-18-5 Toxicity Persiste Degrada Bioaccu	Glycerol Sodium azide Sodium chloride Potassium phosp Sodium phosphat Water	hate, Monobasic te, Dibasic Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water	n.a. n.a. n.a. n.a. n.a. n.a. Informati	n.a. n.a. n.a. n.a. n.a.	A4 n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	
56- 2662 7647 7778 7558 7732 12.1 12.2	-81-5 28-22-8 7-14-5 8-77-0 8-79-4 2-18-5 Toxicity Persiste Degrada Bioaccu Potentia	Glycerol Sodium azide Sodium chloride Potassium phosp Sodium phosphat Water : ence and ability: unulative	hate, Monobasic re, Dibasic Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available.	n.a. n.a. n.a. n.a. n.a. n.a. Informati	n.a. n.a. n.a. n.a. n.a.	A4 n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	
56- 2662 7647 7778 7558 7732 2.1 2.2 2.3	-81-5 28-22-8 7-14-5 8-77-0 8-79-4 2-18-5 Toxicity Persiste Degrada Bioaccu Potentia Mobility	Glycerol Sodium azide Sodium chloride Potassium phosp Sodium phosphat Water : ence and ability: imulative al: in Soil:	hate, Monobasic re, Dibasic Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available.	n.a. n.a. n.a. n.a. n.a. n.a. Informati	n.a. n.a. n.a. n.a. n.a.	A4 n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	
56- 2662 7647 7778 7558 7732 12.1 12.2 12.3	-81-5 28-22-8 7-14-5 8-77-0 8-79-4 2-18-5 Toxicity Persiste Degrada Bioaccu Potentia Mobility Results	Glycerol Sodium azide Sodium chloride Potassium phosp Sodium phosphat Water : : ence and ability: imulative al: in Soil: of PBT and vPvB	hate, Monobasic re, Dibasic Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available.	n.a. n.a. n.a. n.a. n.a. n.a. Informati	n.a. n.a. n.a. n.a. n.a.	A4 n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	
56- 2662 7647 7778 7558	-81-5 28-22-8 7-14-5 8-77-0 8-79-4 2-18-5 Toxicity Persiste Degrada Bioaccu Potentia Mobility Results assessm	Glycerol Sodium azide Sodium chloride Potassium phosp Sodium phosphat Water : : ence and ability: imulative al: in Soil: of PBT and vPvB	hate, Monobasic re, Dibasic Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available.	n.a. n.a. n.a. n.a. n.a. n.a. Informati	n.a. n.a. n.a. n.a. n.a.	A4 n.a. n.a. n.a.	n.a. n.a. n.a. n.a.	



Revision: 09/09/2015 Supersedes Revision: 05/14/2015

	Section 13. Dispo			
13.1 Waste	Disposal Method: Dispose in accordance with loc	cal, state, and federa	al regulations.	
	Section 14. Trar	nsport Information	ation	
14.1 LAND	TRANSPORT (US DOT):			
DOT Prop	er Shipping Name: Not dangerous goods.			
DOT Haza				
UN/NA Nu				
	TRANSPORT (European ADR/RID):			
	Shipping Name: Not dangerous goods.			
UN Numb				
	ANSPORT (ICAO/IATA): A Shipping Name: Not dangerous goods.			
Additional Tra		ocal state and fede	eral regulations	
Information:				
	Section 15. Regu	latory Inform	ation	
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-	uperfund Amendments and Reauthorization Act	-		
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
NA	Mn SOD (human) Polyclonal Antibody	No	No	No
56-81-5	Glycerol	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	Mn SOD (human) Polyclonal Antibody	CAA HAP,ODC: PROP.65: No	No; CWA NPDES:	No; TSCA: No; CA
56-81-5	Glycerol	CAA HAP,ODC: Inventory; CA P	No; CWA NPDES: I ROP.65: No	No; TSCA: Yes -
	Sodium azide	CAA HAP,ODC:	No; CWA NPDES:	No; TSCA: Yes -
26628-22-8		Inventory; CA P		
			No. CWA NPDES	No; TSCA: Yes -
26628-22-8 7647-14-5	Sodium chloride	CAA HAP,ODC: Inventory; CA P		
	Sodium chloride Potassium phosphate, Monobasic	Inventory; CA P	ROP.65: No No; CWA NPDES: I	No; TSCA: Yes -
7647-14-5		Inventory; CA P CAA HAP,ODC: Inventory; CA P	ROP.65: No No; CWA NPDES: ROP.65: No No; CWA NPDES:	

Multi-region format



Revision: 09/09/2015 bersedes Revision: 05/14/2015

Carrient	Supersedes Revision: 05/14/2015
Regulatory Information	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)
Statement:	No.1272/2008.
	Section 16. Other Information
Revision Date:	09/09/2015
Additional Information About	No data available.
This Product:	
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.