

# SET7/9 (human recombinant) Assay Enzyme

	CHEMICAL		Supersedes Revision. 03/14/2012				
	accord	ng to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008				
	Section 1. Ide	ntification of the Substance/Mixture and of the	ne Company/Undertaking				
1.1	Product Code:	600492					
	Product Name:	SET7/9 (human recombinant) Assay Enzyme					
.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.							
1.3	Details of the Supplier of the Safety Data Sheet:						
	Company Name:	Cayman Chemical Company					
	Company Name.	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 number	er:					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
2.1	Classification of the Substan						
2.1.1							
	-	Regulation (EC) No 1272/2008 [CLP]:					
	Skin Corrosion/Irritation, C						
	Serious Eye Damage/Eye I	ritation, Category 2					
2.2	Label Elements:						
2.2.1	Labeling according to Regulation (EC) No 1272/2008 [CLP]:						
	$\wedge$						
	$\langle   \rangle$						
		Worning					
	GHS Signal Word:	Warning					
	GHS Hazard Phrases:						
	H316: Causes mild skin irritation.						
	H319: Causes serious eye irritation.						
	GHS Precaution Phrases:						
	P264: Wash {hands} thoroughly after handling.						
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.						
	GHS Response Phrases:						
	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy						
	to do. Continue rinsing.						
	P332+313: If skin irritation occurs, get medical advice/attention.						
		rsists, get medical advice/attention.					
	GHS Storage and Disposal Phrases:						
	Please refer to Section 7 for	Storage and Section 13 for Disposal information.					



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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 merion

Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.

May cause respiratory system irritation.

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	SET7/9 (human recombinant)	< 1.0 %	NA NA	No data available.
56-81-5 MA8050000	Glycerol	20.0 %	200-289-5 NA	Skin Corr. 3: H316 Eye Damage 2B: H320
7647-14-5 VZ4725000	Sodium chloride	0.58 %	231-598-3 NA	No data available.
10049-21-5 WA1900000	Sodium phosphate monobasic, monohydrate	0.6 %	NA NA	Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336
7558-79-4 WC4500000	Sodium phosphate, Dibasic	0.71 %	231-448-7 NA	Eye Damage 2: H319
7732-18-5 ZC0110000	Water	>77.11 %	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.
		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	A solid water stream may be inefficient.
	Media:	
5.2	Flammable Properties an	dEmits toxic fumes under fire conditions.
	Hazards:	
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	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.
		Multi-region format



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Section 6. Accidental Release Measures

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6.1	Protect	ive Precautions,	Avoid breathing va	apors and provide adequate ve	entilation.		
	Protect	ive Equipment and		ant, wear a NIOSH approved			
		and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).					
6.2 Environmental			Take steps to avoi	d release into the environmen	t, if safe to do so.		
	Precaut	tions:					
6.3			-	collect, as appropriate.			
		ment and Cleanir	gTransfer to a chem	nical waste container for dispo	sal in accordance with lo	cal regulations.	
	Up:						
			Section	7. Handling and Sto	orage		
7.1			-	st/fume/gas/mist/vapours/spra	ay.		
	in Hanc	•		repeated exposure.			
7.2			Keep container tigh	-			
	in Stori	ng:	Store in accordanc	e with information listed on the	e product insert.		
		Sec	tion 8. Expos	sure Controls/Perso	nal Protection		
8.1	Exposu	re Parameters:					
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe	
	NA	SET7/9 (human re	ecombinant)	No data.	No data.	No data.	
56	5-81-5	Glycerol		TWA: 10 mg/m3 () STEL: ()	TWA: 10 mg/m3	No data.	
764	7-14-5	Sodium chloride		No data.	No data.	No data.	
1004	49-21-5	Sodium phosphat monohydrate	e monobasic,	No data.	No data.	No data.	
755	58-79-4	Sodium phosphat	e, Dibasic	No data.	No data.	No data.	
773	32-18-5	Water		No data.	No data.	No data.	
CAS	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits	
	NA	SET7/9 (human re	ecombinant)	No data.	No data.	No data.	
56	5-81-5	Glycerol		PEL: 15 (dust); 5 (resp.) mg/m3	TLV: 10 mg/m3	No data.	
764	7-14-5	Sodium chloride		No data.	No data.	No data.	
1004	49-21-5	Sodium phosphat monohydrate	e monobasic,	No data.	No data.	No data.	
755	58-79-4	Sodium phosphat	e, Dibasic	No data.	No data.	No data.	
773	82-18-5	Water		No data.	No data.	No data.	
8.2	Exposu	re Controls:			·	•	
8.2.1	Engine	ering Controls	Use process enclose	sures, local exhaust ventilatior	n, or other engineering co	ontrols to control airborne	
	(Ventila	tion etc.):	levels below recom	mended exposure limits.			
8.2.2	Person	al protection equi	pment:				
	Eye Pro	otection:	Safety glasses				
	Protect	ive Gloves:	Compatible chemic	cal-resistant gloves			
	Other P	rotective Clothing	<b>j:</b> Lab coat				
	Respira	tory Equipment	NIOSH approved respirator, as conditions warrant.				
	(Specify	у Туре):					
	Work/H	ygienic/Maintenar	n Do not take interna	illy.			

Multi-region format



#### SAFETY DATA SHEET SET7/9 (human recombinant) Assay Enzyme

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	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.
	<u> </u>	
9.1		ection 9. Physical and Chemical Properties
9.1	Physical States:	sical and Chemical Properties []Gas [X] Liquid [] Solid
	Appearance and Odor:	Solution
	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 o	<b>r mm</b> No data.
	Hg):	
	Vapor Density (vs. Air = 1	
	Specific Gravity (Water =	1): No data.
	Solubility in Water:	No data.
	Autoignition Pt:	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	-
	To Avoid:	strong oxidizing agents
10.6	Hazardous	carbon dioxide
	Decomposition or	carbon monoxide
	Byproducts:	



			Section 11. Toxicological	Informa	ation		
11.1	Informat	ion on	The toxicological effects of this product ha	ave not beer	n thoroughly st	udied.	
	Toxicolo	gical Effects:	Glycerol - Irritation Data: Eyes (rabbit): 50	00 mg (24h)	mild; Skin (rab	bit): 500 mg (2	24h) mild;
	Chronic	Toxicological	Glycerol - Investigated as a mutagen, rep	roductive ef	fector, and turr	origen.	
	Effects:		Only select Registry of Toxic Effects of Cl	nemical Sub	stances (RTE	CS) data is pre	esented here.
			See actual entry in RTECS for complete i	nformation.			
			Glycerol RTECS Number: MA8050000				
Carci	nogenicity	/:	NTP? No IARC Monographs? No	OSHA Re	egulated? No		
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
	NA	SET7/9 (human r	recombinant)	n.a.	n.a.	n.a.	n.a.
56	-81-5	Glycerol		n.a.	n.a.	n.a.	n.a.
764	7-14-5	Sodium chloride		n.a.	n.a.	n.a.	n.a.
1004	49-21-5	Sodium phospha	te monobasic, monohydrate	n.a.	n.a.	n.a.	n.a.
755	8-79-4	Sodium phospha	te, Dibasic	n.a.	n.a.	n.a.	n.a.
773	2-18-5	Water		n.a.	n.a.	n.a.	n.a.
			Section 12. Ecological I	nformat	ion		
12.1	Toxicity		Avoid release into the environment.		-		
	,		Runoff from fire control or dilution water n	nay cause p	ollution.		
12.2	Persiste	nce and	No data available.				
	Degrada	bility:					
12.3	Bioaccu	mulative	No data available.				
	Potentia	l:					
12.4	Mobility	in Soil:	No data available.				
12.5	Results	of PBT and vPvB	No data available.				
	assessm	ient:					
12.6	Other ad	verse effects:	No data available.				
			Section 13. Disposal Cor	nsiderat	ions		
13.1	Waste D	isposal Method:	Dispose in accordance with local, state, a	nd federal r	egulations.		
			Section 14. Transport I	nformat	ion		
14.1	LAND T	RANSPORT (US I	DOT):				
D	OT Prope	r Shipping Name	Not dangerous goods.				
D	OT Hazaro	d Class:					
U	N/NA Nun	nber:					
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):				
A	DR/RID SI	nipping Name:	Not dangerous goods.				
U U	N Number	:					
н	azard Cla	SS:					
14.3		NSPORT (ICAO/	IATA):				
10	CAO/IATA	Shipping Name:	Not dangerous goods.				
Addit	tional Trar	isport	Transport in accordance with local, state,	and federa	l regulations.		
Infor	mation:						



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	Section 15. Regu	ulatory Inform	ation			
perfund Amendn	nents and Reauthorization Act	t of 1986) Lists				
Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
SET7/9 (human ı	recombinant)	No	No	No		
Glycerol		No	No	No		
Sodium chloride		No	No	No		
Sodium phospha	te monobasic, monohydrate	No	No	No		
Sodium phospha	te, Dibasic	No	Yes 5000 LB	No		
Water		No	No	No		
Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists			
SET7/9 (human ı	recombinant)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Glycerol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
Sodium chloride			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Sodium phosphate monobasic, monohydrate		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
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				
ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
	Section 16. Of	ther Information	on			
	05/14/2015					
rmation About	No data available.					
y or Discidimer:	currently available to us. Howe express or implied, with respe	ever, we make no wa ct to such informatior	rranty of merchantal	bility or any other warrant b liability resulting from its		
	Hazardous Com SET7/9 (human Glycerol Sodium chloride Sodium phospha Water Hazardous Com SET7/9 (human Glycerol Sodium chloride Sodium phospha Sodium phospha	perfund Amendments and Reauthorization Ac         Hazardous Components (Chemical Name)         SET7/9 (human recombinant)         Glycerol         Sodium chloride         Sodium phosphate monobasic, monohydrate         Sodium phosphate, Dibasic         Water         Hazardous Components (Chemical Name)         SET7/9 (human recombinant)         Glycerol         Sodium chloride         Sodium chloride         Sodium chloride         Sodium phosphate monobasic, monohydrate         Sodium phosphate monobasic, monohydrate         Sodium phosphate, Dibasic         Water         This SDS was prepared in acc         No.1272/2008.         Section 16. Ot         05/14/2015         rmation About       No data available.         y or Disclaimer:       DISCLAIMER: This information         currently available to us. Howe         express or implied, with resperuse. Users should make their	perfund Amendments and Reauthorization Act of 1986) Lists         Hazardous Components (Chemical Name)       S. 302 (EHS)         SET7/9 (human recombinant)       No         Glycerol       No         Sodium chloride       No         Sodium phosphate monobasic, monohydrate       No         Sodium phosphate, Dibasic       No         Water       No         Hazardous Components (Chemical Name)       Other US EPA o         SET7/9 (human recombinant)       CAA HAP,ODC:         PROP.65: No       Glycerol         Glycerol       CAA HAP,ODC:         Inventory; CA P       Sodium chloride         Sodium phosphate monobasic, monohydrate       CAA HAP,ODC:         Inventory; CA P       Sodium phosphate monobasic, monohydrate         Sodium phosphate, Dibasic       CAA HAP,ODC:         Inventory; CA P       Sodium phosphate, Dibasic         Sodium phosphate, Dibasic       CAA HAP,ODC:         Inventory; CA P       No.1272/2008.         Section 16. Other Information       05/14/2015         rmation About       No data available.         y or Disclaimer:       DISCLAIMER: This information is believed to be ac currently available to us. However, we make no wa express or implied, with respect to such informatior use. Users should make their own investigations to the provestigat	Hazardous Components (Chemical Name)       S. 302 (EHS)       S. 304 RQ         SET7/9 (human recombinant)       No       No       No         Glycerol       No       No       No         Sodium chloride       No       No       No         Sodium phosphate monobasic, monohydrate       No       No       No         Sodium phosphate, Dibasic       No       No       No         Water       No       No       No         Hazardous Components (Chemical Name)       Other US EPA or State Lists         SET7/9 (human recombinant)       CAA HAP,ODC: No; CWA NPDES: PROP.65: No         Glycerol       CAA HAP,ODC: No; CWA NPDES: Inventory; CA PROP.65: No         Sodium chloride       CAA HAP,ODC: No; CWA NPDES: Inventory; CA PROP.65: No         Sodium phosphate monobasic, monohydrate       CAA HAP,ODC: No; CWA NPDES: Inventory; CA PROP.65: No         Sodium phosphate, Dibasic       CAA HAP,ODC: No; CWA NPDES: Inventory; CA PROP.65: No         Sodium phosphate, Dibasic       CAA HAP,ODC: No; CWA NPDES: Inventory; CA PROP.65: No         Sodium phosphate, Dibasic       CAA HAP,ODC: No; CWA NPDES: Inventory; CA PROP.65: No         Sodium phosphate, Dibasic       CAA HAP,ODC: No; CWA NPDES: Inventory; CA PROP.65: No         Sodium phosphate, Dibasic       CAA HAP,ODC: No; CWA NPDES: Inventory; CA PROP.65: No		