

Revision: 05/02/2015 Supersedes Revision: 02/03/2011

		acco	ording to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/200	8			
			dentification of the Substan		· /				
L	Product					laonaning			
1.1	Product		600362 Cell-Based Assay Glutath	nione Standard					
1.2			-		nainst:				
1.2	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			he Safety Data Sheet:						
1.3	Details	of the Supplier of t	he salely Data Sheet.						
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any					
	Web s	ite address:	www.caymanchem.com						
	Inform	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335			
1.4	Emerge	ncy telephone nun	nber:						
	Emerg	ency Contact:	CHEMTREC Within USA			0)424-9300			
			CHEMTREC Outside US	A and Canada:	+1 (703	3)527-3887			
			Section 2. Haz	zards Identific	ation				
2.1	Classifi	cation of the Subst	ance or Mixture:						
2.1.1	Classifi	cation according t	o Regulation (EC) No 1272/2	2008 [CLP]:					
2.2		ements:							
2.2.1	Labelin	g according to Re	gulation (EC) No 1272/2008 [CLP]:					
	GHS Signal Word: None								
	GHS Hazard Phrases:								
	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.								
		Precaution Phrases	5:						
	-	rases apply.							
	GHS Response Phrases:								
	No phrases apply. GHS Storage and Disposal Phrases:								
			for Storage and Section 13 for	Disposal information					
2.3		e Human Health	-	-		piratory tract			
	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.								
		May cause eye, skin, or respiratory system irritation.							
			To the best of our knowledge	, the toxicological pro	operties have not	been thoroughly investigated.			
		Sect	ion 3. Composition	/Information c	on Ingredier	nts			
CAS RTE		Hazardous Comp REACH Registrat	onents (Chemical Name)/ ion No.	Concentration	EC No./ EC Index No.	GHS Classification			
70	-18-8	Glutathione, reduced		100.0 %	200-725-4	No data available.			
MC05	56000				NA				
						Multi-region format			



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			Section	4. First Aid M	easures		
4.1	Descri	ption of First Aid					
	Measu	res:					
	In Case	In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by train Get immediate medical attention.					
	In Case	e of Skin Contact:	-		y of water for at least 15 minute s occur. Wash clothing before re		
	In Case	e of Eye Contact:	-	nd flush eyes with plen	ty of water for at least 15 minut		
	In Case	e of Ingestion:			n is conscious. Never give anyt . Do NOT induce vomiting unle		
			Section 5.	Fire Fighting	Measures		
5.1	Suitab	le Extinguishing	Use alcohol-resistan	t foam, carbon dioxide	e, 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 andNo data available.						
	Hazard	ls:					
	Flash F	Pt:	No data.				
	Explos	vive Limits:	LEL: No data.	UEL:	No data.		
	Autoig	nition Pt:	No data.				
5.3	Fire Fig	ghting Instructions	: As in any fire, wear s	self-contained breathir	ng apparatus pressure-demand	(NIOSH approved or	
			equivalent), and full	protective gear to prev	vent contact with skin and eyes.		
			Section 6. Ac	cidental Relea	ase Measures		
6.1	Protec	tive Precautions,	Avoid raising and br	eathing dust, and prov	vide adequate ventilation.		
	Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,						
	Emerg	ency Procedures:	and appropriate per	sonal protection (rubb	er boots, safety goggles, and he	eavy rubber gloves).	
6.2	Enviro	nmental	Take steps to avoid	release into the enviro	onment, if safe to do so.		
	Precau	itions:					
6.3	Methods and Material For Contain spill and collect, as appropriate.						
	Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.						
	Up:						
			Section 7	. Handling an	d Storage		
7.1	Precau	itions To Be Taker	Avoid breathing dust	/fume/gas/mist/vapou	rs/spray.		
	in Han		Avoid prolonged or r	-			
7.2			Keep container tight	v closed.			
	in Stor			-	on the product insert.		
		Sec	tion 8. Exposi	ure Controls/P	ersonal Protection		
8.1	Exposu	ire Parameters:	·				
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe	
70	-18-8	Glutathione, redu	ced	No data.	No data.	No data.	
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						Multi-region format	

SAFETY DATA SHEET Cell-Based Assay Glutathione Standard

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CAS #	ŧ	Partial Chemica	Name	OSHA TWA	ACGIH TWA	Other Limits			
70-18-8 Glutathione, reduced			ced	No data.	No data.	No data.			
.2	Exposu	re Controls:							
8.2.1	Engine	ering Controls	Use process en	closures, local exhaust ve	entilation, or other engineering of	controls to control airbor			
	(Ventila	ation etc.):	levels below rec	commended exposure limi	its.				
3.2.2	Personal protection equipment:								
			Safety glasses						
	Protective Gloves: Compati		Compatible che	mical-resistant gloves					
	Other Protective Clothing:Lab coat								
	Respiratory Equipment NIOSH		NIOSH approve	SH approved respirator, as conditions warrant.					
	(Specify Type):								
	Work/H	lygienic/Maintena	n Do not take inte	rnally.					
	ce Practices: Facilit		Facilities storing	ilities storing or utilizing this material should be equipped with an eyewash facility and a safet					
	showe		shower.						
			Wash thoroughl	y after handling.					
			No data availab	le.					
		S	ection 9. P	hysical and Che	mical Properties				
).1		tion on Basic Phy	sical and Chemi	-					
	Physic	al States:	[] Gas		lid				
	Appearance and Odor: A		A lyophil	lized powder					
	Melting Point: No da		No data.						
	Boiling Point: No data.								
	Flash F		No data.						
	Evaporation Rate: No data		No data.						
	, (, , , , , , , , , , , , , , , , , ,			No data available.					
	-	ive Limits:	LEL: No		UEL: No data.				
			r mm No data.						
	Hg):								
	Vapor Density (vs. Air = 1):		-						
	Specific Gravity (Water = 1):		•						
	Solubility in Water:		No data.						
	-	nition Pt:	No data.						
9.2	Other In	nformation							
	Percen	t Volatile:	No data.						
			Section	10. Stability and	Reactivity				
0.1	Reactiv	-	No data availab						
0.2	Stabilit	-	Unstable []	Stable [X]					
0.3		y Note(s):			ation listed on the product inse	rt.			
	Polyme	erization:	Will occur []	Will not occur [X]					
0.4	Conditi	ions To Avoid:	No data availab	le.					
0.5		oatibility - Material	s strong oxidizing	agents					
	To Avo	id:							
0.6	Hazard	ous	carbon dioxide						
	Decom	position or	carbon monoxid	le					
	Byprod	lucts:	nitrogen oxides						



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sulfur oxides Section 11. Toxicological Information 11.1 Information on The toxicological effects of this compound have not been thoroughly studied. Glutathione - Toxicity Data: Oral LD50 (mouse): 5 g/kg; **Toxicological Effects:** Chronic Toxicological Glutathione - Investigated as a mutagen and reproductive effector. Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Glutathione RTECS Number: MC0556000 Hazardous Components (Chemical Name) CAS # NTP IARC ACGIH **OSHA** 70-18-8 Glutathione, reduced n.a. n.a. n.a. n.a. Section 12. Ecological Information 12.1 **Toxicity:** Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. 12.2 Persistence and No data available. **Degradability:** 12.3 **Bioaccumulative** No data available. **Potential:** 12.4 No data available. Mobility in Soil: 12.5 Results of PBT and vPvB No data available. assessment: No data available. 12.6 Other adverse effects: Section 13. Disposal Considerations 13.1 **Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations. Section 14. Transport Information LAND TRANSPORT (US DOT): 14.1 DOT Proper Shipping Name: Not dangerous goods. **DOT Hazard Class: UN/NA Number:** LAND TRANSPORT (European ADR/RID): 14.1 ADR/RID Shipping Name: Not dangerous goods. **UN Number:** Hazard Class: 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information:

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EPA SARA (Su		Section 15. Regu	natory morm	alion	
<u> </u>	perfund Amendm	nents and Reauthorization Act	of 1986) Lists		
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
70-18-8	Glutathione, redu	ced	No	No	No
CAS #		ponents (Chemical Name)	Other US EPA or State Lists		
70-18-8	Glutathione, redu	liced	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
Regulatory Info Statement:	ormation	This SDS was prepared in accord No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)
		Section 16. Ot	her Information	on	
Revision Date:		05/02/2015			
Additional Information About		No data available.			
This Product:					
		their particular purposes.			