

Revision: 10/16/2014

		ording to Regulation (EC) No. 1907/2006 as amended by					
	Section 1.	Identification of the Substance/Mixture and of the	he Company/Undertaking				
1.1	Product Code: Product Name: Synonyms:	15491 L-Glutathione, oxidized (sodium salt) L-g-glutamyl-L-cysteinyl-bimol-(2?2')-disulfide-					
1.2		of the substance or mixture and uses advised ag					
	Relevant identified uses		nary use.				
1.3	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				
1.4	Emergency telephone nur	nber:					
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887				
		Section 2. Hazards Identific	ation				
2.1.1 2.1.2 2.2 2.2.1	Classification according Risk Phrases: For full text of R- phrase Label Elements: Labeling according to Re GHS Signal Word: GHS Hazard Phrases: Based on evaluation of cur GHS Precaution Phrases No phrases apply. GHS Response Phrases: No phrases apply. GHS Storage and Dispos Please refer to Section 7 for	es: see SECTION 15. gulation (EC) No 1272/2008 [CLP]: rently available data this substance or mixture is no : al Phrases: or Storage and Section 13 for Disposal information.	t classifiable according to GHS.				

Multi-region format



2.3 **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.

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		Sect	ion 3. Composition	/Information o	on Ingredie	nts			
CAS # / RTECS # 103239-24-3 NA		Hazardous Components (Chemical Name)/ REACH Registration No. L-Glutathione, oxidized (sodium salt)		Concentration 100.0 %	EC No./ EC Index No. NA NA	Risk Phrases/ GHS Classification No phrases apply. No data available.			
									·
			Section 4. Fi	rst Aid Measu	ires				
4.1	-	Description of First Aid No data available. Measures: Image: Comparison of the second sec							
	In Case	In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained pers Get immediate medical attention.							
	In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contamina clothing. Get medical attention if symptoms occur. Wash clothing before reuse.								
	In Case	of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		ater for at least 1	5 minutes. Have eyes examined			
	In Case	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 Mea	sures				
 5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Media: Use water spray to cool fire-exposed containers. 						spray.			
	Unsuita Media:	nsuitable Extinguishing A solid water stream may be inefficient.							
5.2		Flammable Properties and No data available.							
	Flash P	't:	No data.						
1	Explos	ive Limits:	LEL: No data.	UEL: No da	ta.				
	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.								
			Section 6. Acciden	tal Release N	leasures				
6.1	Protective Precautions,Avoid raising and breathing dust, and provide adequate ventilation.Protective Equipment andAs conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respiratorEmergency Procedures:and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).								
6.2	Enviror Precau	nmental tions:	Take steps to avoid release	into the environment	, if safe to do so.				
 6.3 Methods and Material For Contain spill and collect, as appropriate to a chemical waste contain Up: 					al in accordance	with local regulations.			

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			Section 7	. Handling	g and Stor	rage	
7.1	Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.						
	in Hand	ling: A	void prolonged or r	epeated exposu	ure.		
7.2		ions To Be Taken K		-			
	in Storii	ng: S	tore in accordance	with information	n listed on the p	product insert.	
		Sectio	on 8. Exposi	ure Contro	ls/Person	al Protection	
8.1	Exposur	e Parameters:					
CAS	#	Partial Chemical Name		Britain EH40	0	France VL	Europe
103239-24-3		L-Glutathione, oxidized (sodium salt)		No data.		No data.	No data.
CAS	CAS # Partial Chemical Name		ame	OSHA TWA	IA TWA	ACGIH TWA	Other Limits
1032	39-24-3	L-Glutathione, oxidiz	ed (sodium salt)	No data.		No data.	No data.
8.2	Exposu	e Controls:					
8.2.1	Enginee	ering Controls	se process enclosu	ures, local exha	ust ventilation,	or other engineering o	controls to control airbor
	(Ventila	tion etc.):	vels below recomm	nended exposur	re limits.		
8.2.2	Persona	al protection equipm	ient:				
	Eye Pro	tection: S	afety glasses				
	Protecti	ve Gloves: C	ompatible chemica	Il-resistant glove	es		
	Other P	rotective Clothing:∟	ab coat				
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.						
	Respira	tory Equipment	IOSH approved res	spirator, as conc	ditions warrant.		
	(Specify		IOSH approved res	spirator, as cono	ditions warrant.		
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	(Specify Work/H	y Type): ygienic/Maintenan D tices: F V	o not take internall acilities storing or u /ash thoroughly aft	y. utilizing this mate			wash and a safety show
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	(Specify Work/H	y Type): ygienic/Maintenan D tices: F V	o not take internall acilities storing or u /ash thoroughly aft	y. utilizing this mate er handling.	erial should be	equipped with an eye	wash and a safety show
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9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weig	ght: C20H30N6O12S2 • 2Na 656.6					
		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							
	To Avoid:	peroxides					
10.6	Hazardous	carbon dioxide					
	Decomposition Or	carbon monoxide					
	Byproducts:	nitrogen oxides					
		sulfur oxides					
		Section 11. Toxicological Information					
11.1	Information on	The toxicological effects of this product have not been thoroughly studied.					
	Toxicological Effects:						
Carci	nogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No					
		Section 12. Ecological Information					
12.1	Tevisitu	Avoid release into the environment.					
12.1	Toxicity:	Runoff from fire control or dilution water may cause pollution.					
12.2	Persistence and	No data available.					
12.2	Degradability:	ino data available.					
12.2	Bioaccumulative	No data available.					
12.3	Potential:	No data avallable.					
40.4		No data available.					
12.4	Mobility in Soil:						
12.5	Results of PBT and vPvB	No data available.					
	assessment:						
		Section 13. Disposal Considerations					
13.1	Waste Disposal Method:	Dispose in accordance with local, state, and federal regulations.					
		Section 14. Transport Information					
14.1	LAND TRANSPORT (US I	DOT):					
D	OT Proper Shipping Name:	Not dangerous goods.					
D	DOT Hazard Class:						
U	N/NA Number:						
14.1	LAND TRANSPORT (Euro	opean ADR/RID):					
A	DR/RID Shipping Name:	Not dangerous goods.					
	N Number:						
н	azard Class:						



14.3 AIR TR	ANSPORT (ICAO/	ΊΑΤΑ):				
ICAO/IATA	Shipping Name:	Not dangerous goods.				
Additional Trai	nsport	Transport in accordance with	local, state, and fede	eral regulations.		
Information:						
		Section 15. Regu	ulatory Inform	ation		
EPA SARA (Su	perfund Amendn	nents and Reauthorization Ac	t of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
103239-24-3	L-Glutathione, ox	kidized (sodium salt)	No	No	No	
CAS #	AS # Hazardous Components (Chemical Name) Other US EPA or State Lists					
103239-24-3	L-Glutathione, ox	kidized (sodium salt)	CAA HAP,ODC: PROP.65: No	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
European Com	nmunity Hazard S	symbol codes:				
-	nmunity Risk and	-				
S24/25		Avoid contact with skin and eyes				
S37/39	N	Wear suitable gloves and eye/fa	ce protection.			
Regulatory Info	ormation	This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive				
Statement:		67/548/EEC as amended.				
		Section 16. Of	ther Informati	on		
Revision Date:		10/16/2014				
Additional Info	rmation About	No data available.				
This Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howe express or implied, with respe- use. Users should make their their particular purposes.	ever, we make no wa ct to such information	arranty of merchanta n, and we assume n	bility or any other warranty, o liability resulting from its	

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