

Revision: 02/29/2016

Multi-region format

.1								
	Product	Code:	18896					
	Product	Name:	D-Saccharic Acid 1,4-lac	tone (hydrate)				
	Synonyn	ns:	1,4-lactone D-glucaric ac	id, monohydrate; D	-Glucaro-1,4-lacto	one;		
1.2	Relevant	t identified uses of t	he substance or mixture a	and uses advised a	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:							
	Compa	any Name:	Cayman Chemical Comp	pany				
			1180 E. Ellsworth Rd. Ann Arbor, MI 48108					
	Web si	te address:	www.caymanchem.com					
	Informa		Cayman Chemical Comp	panv	+1 (7;	34)971-3335		
1.4	Emerger	ncy telephone numb			ζ, Υ	- ,		
	-	ency Contact:	CHEMTREC Within USA	and Canada:	+1 (8)	00)424-9300		
	· J				\ -			
			CHEMTREC Outside US	A and Canada:	+1 (7	03)527-3887		
						03)527-3887		
			Section 2. Ha			03)527-3887		
2.1		cation of the Substa	Section 2. Ha			03)527-3887		
2.1 2.2	Label El	ements:	Section 2. Ha: nce or Mixture:			03)527-3887		
	Label Ele GHS Si	ements: ignal Word:	Section 2. Ha			03)527-3887		
	Label Ele GHS Si GHS H	ements: ignal Word: lazard Phrases:	Section 2. Ha: nce or Mixture: None	zards Identif	ication			
	Label Ele GHS Si GHS H Based	ements: ignal Word: lazard Phrases: on evaluation of curre	Section 2. Ha: nce or Mixture:	zards Identif	ication			
	Label Eld GHS Si GHS H Based GHS P	ements: ignal Word: lazard Phrases: on evaluation of curre Precaution Phrases:	Section 2. Ha: nce or Mixture: None	zards Identif	ication			
	Label Eld GHS Si GHS H Based GHS P No phr	ements: ignal Word: lazard Phrases: on evaluation of curre Precaution Phrases: rases apply.	Section 2. Ha: nce or Mixture: None	zards Identif	ication			
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	Label Eld GHS Si GHS H Based GHS P No phr GHS R No phr	ements: ignal Word: lazard Phrases: on evaluation of curre Precaution Phrases: ases apply. Response Phrases: ases apply. Storage and Disposa	Section 2. Ha: nce or Mixture: None ently available data this sub	zards Identif	ication			
2.2	Label Ele GHS Si GHS H Based GHS P No phr GHS R No phr GHS S Please	ements: ignal Word: lazard Phrases: on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for	Section 2. Ha: nce or Mixture: None ently available data this sub I Phrases: Storage and Section 13 for	zards Identif	not classifiable a	according to GHS.		
	Label Eld GHS Si GHS H Based GHS P No phr GHS R No phr GHS S Please Adverse	ements: ignal Word: lazard Phrases: on evaluation of curre Precaution Phrases: ases apply. esponse Phrases: ases apply. Storage and Disposa e refer to Section 7 for e Human Health	Section 2. Ha: nce or Mixture: None ently available data this sub I Phrases: Storage and Section 13 for faterial may be irritating to t	zards Identif	not classifiable a	according to GHS.		
2.2	Label Eld GHS Si GHS H Based GHS P No phr GHS R No phr GHS S Please Adverse	ements: ignal Word: lazard Phrases: on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for the Human Health Mand Symptoms: Markets	Section 2. Ha: nce or Mixture: None ently available data this sub- storage and Section 13 for faterial may be irritating to t fay be harmful by inhalation	zards Identif	on. anes and upper re absorption.	according to GHS.		
2.2	Label Eld GHS Si GHS H Based GHS P No phr GHS R No phr GHS S Please Adverse	ements: ignal Word: lazard Phrases: on evaluation of curre Precaution Phrases: ases apply. Storage and Disposa e refer to Section 7 for e Human Health and Symptoms: N	Section 2. Ha: nce or Mixture: None ently available data this sub- storage and Section 13 for faterial may be irritating to t fay be harmful by inhalation fay cause eye, skin, or resp	zards Identif	on. anes and upper re absorption. tion.	according to GHS.		
2.2	Label Eld GHS Si GHS H Based GHS P No phr GHS R No phr GHS S Please Adverse	ements: ignal Word: lazard Phrases: on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposa e refer to Section 7 for e Human Health and Symptoms: M T	Section 2. Ha: nce or Mixture: None ently available data this sub- ently available data this	zards Identif	on. anes and upper re absorption. tion.	espiratory tract.		
2.2	Label Eld GHS Si GHS H Based GHS P No phr GHS S Please Adverse Effects	ements: ignal Word: lazard Phrases: on evaluation of curre Precaution Phrases: ases apply. Storage and Disposa e refer to Section 7 for Human Health and Symptoms: M T Section	Section 2. Ha: nce or Mixture: None ently available data this sub- storage and Section 13 for faterial may be irritating to t fay be harmful by inhalation fay cause eye, skin, or resp to the best of our knowledge on 3. Composition	zards Identif	on. anes and upper re absorption. tion. oroperties have no On Ingredie	eccording to GHS. espiratory tract. ot been thoroughly investigate		
2.2	Label Eld GHS Si GHS H Based GHS P No phr GHS S Please Adverse Effects a	ements: ignal Word: lazard Phrases: on evaluation of curre Precaution Phrases: ases apply. Storage and Disposa e refer to Section 7 for Human Health and Symptoms: M T Section	Section 2. Ha: nce or Mixture: None ently available data this sub- storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp to the best of our knowledge on 3. Composition ments (Chemical Name)/	zards Identif	on. anes and upper re absorption. tion.	espiratory tract.		
2.2 2.3 CAS RTEC	Label Ele GHS Si GHS H Based GHS P No phr GHS S Please Adverse Effects a # / CS #	ements: ignal Word: lazard Phrases: on evaluation of curre recaution Phrases: rases apply. Storage and Disposa e refer to Section 7 for and Symptoms: M T Section Hazardous Compon	Section 2. Ha: nce or Mixture: None ently available data this sub- antly available data this sub- I Phrases: Storage and Section 13 for Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp to the best of our knowledge on 3. Composition ments (Chemical Name)/ n No.	zards Identif	on. anes and upper re absorption. tion. oroperties have no ON Ingredie	eccording to GHS. espiratory tract. ot been thoroughly investigate		



Revision: 02/29/2016

			Section 4	4. First Aid Measur	es	
4.1	Description o	f First Aid				
	Measures:					
	In Case of Inf	nalation:	Remove to fresh air. If Get immediate medica	f not breathing, give artificial re al attention.	espiration or give oxygen by	trained personnel.
	In Case of Sk	in Contact:	-	n with soap and plenty of wate attention if symptoms occur. V		move contaminated
	In Case of Ey	e Contact:	0	d flush eyes with plenty of wate	U U	ve eyes examined
	In Case of Ing	gestion:		water provided person is cons Get medical attention. Do NOT		-
			Section 5.	Fire Fighting Meas	ures	
5.1	Suitable Extir Media:	nguishing		foam, carbon dioxide, water, o pol fire-exposed containers.	or dry chemical spray.	
	Unsuitable Ex Media:	ktinguishing	A solid water stream	may be inefficient.		
5.2	Flammable P Hazards:	roperties an	d No data available.			
			No data available.			
	Flash Pt:		No data.			
	Explosive Lin	nits:	LEL: No data.	UEL: No data		
	Autoignition	Pt:	No data.			
5.3	Fire Fighting	Instructions	-	elf-contained breathing appara rotective gear to prevent conta		H approved or
			Section 6. Ac	cidental Release Me	easures	
6.1	Protective	ecautions,	Avoid raising and bre	eathing dust, and provide adeq	uate ventilation.	
	Protective Eq Emergency P			it, wear a NIOSH approved sel onal protection (rubber boots,		
6.2	Environmenta Precautions:	al	Take steps to avoid r	elease into the environment, it	safe to do so.	
6.3			r Contain spill and coll ngTransfer to a chemic	ect, as appropriate. al waste container for disposal	in accordance with local rec	ulations.
			Section 7.	Handling and Stor	age	
7.1	Precautions T in Handling:	Го Be Taken	Avoid breathing dust/ Avoid prolonged or re	fume/gas/mist/vapours/spray. epeated exposure.		
7.2	Precautions T in Storing:	Fo Be Taken	Keep container tightly Store in accordance v	v closed. with information listed on the p	roduct insert.	
		Sec	tion 8. Exposu	re Controls/Persona	al Protection	
8.1	Exposure Para		•			
CAS	# Parti	al Chemical	Name	Britain EH40	France VL	Europe
612	78-30-6 D-Sa	ccharic Acid	1,4-lactone (hydrate)	No data.	No data.	No data.
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Revision: 02/29/2016

•	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits				
6127	'8-30-6	D-Saccharic Acid	1,4-lactone (hydrate)	No data.	No data.	No data.				
3.2	Exposur	e Controls:			ł					
3.2.1	Enginee	ring Controls	Use process enclosu	res, local exhaust ve	ntilation, or other engineering o	controls to control airborn				
	(Ventilation etc.): levels below recommended exposure limits.									
8.2.2	Personal protection equipment:									
	Eye Prot	ection:	Safety glasses							
	Protectiv	ve Gloves:	Compatible chemical	-resistant gloves						
	Other Protective Clothing:Lab coat									
	Respirat	Respiratory Equipment NIOSH approved respirator, as conditions warrant.								
	(Specify	Туре):								
	Work/Hy	gienic/Maintenar	n Do not take internally							
	ce Pract	ices:	Facilities storing or ut	tilizing this material s	hould be equipped with an eye	wash and a safety show				
			Wash thoroughly afte	er handling.						
			No data available.							
		S	ection 9 Phys	sical and Che	nical Properties					
9.1	Informati									
9.1	Physical	-	sical and Chemical Pi [] Gas []Liquid [X]So	id					
	-	ince and Odor:	A crystalline s		iu					
	Melting		No data.	Solid						
	Boiling		No data.							
	Flash Pt		No data.							
		· tion Rate:	No data.							
	-	bility (solid, gas):		able.						
		/e Limits:	LEL: No data		UEL: No data.					
	-	ressure (vs. Air o	r mm No data.							
	Hg):	·								
		por Density (vs. Air = 1): No data.								
	Specific	Gravity (Water =	1): No data.							
	-	y in Water:	No data.							
	Solubilit	y Notes:	~10 mg/ml in	~10 mg/ml in PBS (pH 7.2); ~20 mg/ml in EtOH, DMSO, & DMF;						
	Autoigni	ition Pt:	No data.							
9.2	Other Inf									
	Percent		No data.							
		ar Formula & Wei		O 210.1						
			-	. Stability and	Reactivity					
10.4	Desired				ιτσασιινιιγ					
10.1	Reactivi	-	No data available.							
10.2	Stability			ble [X]	ation listed on the product inse	rt				
10.3	-	Note(s):			ation listed on the product lise	1.				
	Polymer			ill not occur [X]						
10.4		ons To Avoid:	No data available.							
10.5			s strong oxidiing agents	S						
	To Avoid									
10.6	Hazardo		carbon dioxide							
			carbon monoxide							
	Decomp	osition or	carbon monoxide							



Revision: 02/29/2016

	Byprodu	icts:					
			Section 11. Toxicologi	cal Information	ation		
11.1	Informat	tion on	The toxicological effects of this produ	ict have not bee	n thoroughly st	udied.	
	Toxicolo	ogical Effects:	D-Saccharic Acid 1,4-lactone (hydrat	e) - Toxicity Dat	a: Oral TDLO (rat): 840 mg/kg	g/6W
			(intermittent);				
	Chronic	Toxicological	Only select Registry of Toxic Effects		ostances (RTE	CS) data is pre	sented here.
	Effects:		See actual entry in RTECS for comp				
			D-Saccharic Acid 1,4-lactone (hydrat				
CAS			nponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
012	78-30-6	D-Sacchanc Aci	d 1,4-lactone (hydrate)	n.a.	n.a.	n.a.	n.a.
			Section 12. Ecologic	al Informat	lon		
12.1	Toxicity	:	Avoid release into the environment.				
			Runoff from fire control or dilution wa	iter may cause p	ollution.		
12.2	Persiste		No data available.				
	Degrada	-					
12.3		mulative	No data available.				
	Potentia						
12.4	Mobility		No data available.				
12.5			No data available.				
40.0	assessn						
12.6	Other ac	lverse effects:	No data available.				
			Section 13. Disposal	Considerat	ions		
13.1	Waste D	isposal Method:	Dispose in accordance with local, sta	te, and federal r	egulations.		
			Section 14. Transpo	ort Informat	tion		
14.1	LAND T	RANSPORT (US	DOT):				
D	OT Prope	r Shipping Name	: Not dangerous goods.				
D	OT Hazar	d Class:					
U U	N/NA Nun	nber:					
14.1	LAND T	RANSPORT (Eur	opean ADR/RID):				
A	DR/RID S	hipping Name:	Not dangerous goods.				
-	N Numbe						
н	azard Cla						
14.3		ANSPORT (ICAO	•				
		Shipping Name:					
	ional Trai	nsport	Transport in accordance with local, s	state, and federa	l regulations.		
Infor	mation:						



Revision: 02/29/2016

		Section 15. Regu	latory inform	ation	
EPA SARA (Si	uperfund Amendn	nents and Reauthorization Act	of 1986) Lists		
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
61278-30-6	D-Saccharic Acio	1,4-lactone (hydrate)	No	No	No
CAS #	Hazardous Components (Chemical Name)		Other US EPA o	or State Lists	
61278-30-6	D-Saccharic Acic	1,4-lactone (hydrate)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
Regulatory Inf	ormation	This SDS was prepared in acco No.1272/2008.	ordance with 29 CFI	R 1910.1200 and R	egulation (EC)
		Section 16. Oth	ner Informatio	on	
Revision Date:		02/29/2016			
Additional Information About This Product:		No data available.			
		express or implied, with respect use. Users should make their of their particular purposes.			

Multi-region format