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.1		entification of the Substance	ce/Mixture and of t	he Company/Llr	ndertaking				
.1					lucitating				
	Product Code:	26812							
	Product Name:	L-(-)-Sorbose							
	Synonyms:	L-sorbose;							
.2	Relevant identified uses of	the substance or mixture ar	nd uses advised ag	gainst:					
	Relevant identified uses:	dentified uses: For research use only, not for human or veterinary use.							
1.3	Details of the Supplier of the Safety Data Sheet:								
	Company Name:	any							
		1180 E. Ellsworth Rd.							
		Ann Arbor, MI 48108							
	Web site address:								
	Information:	Cayman Chemical Compa	any	+1 (734	4)971-3335				
1.4	Emergency telephone num	per:							
	Emergency Contact:	CHEMTREC Within USA a			0)424-9300				
		CHEMTREC Outside USA	A and Canada:	+1 (70	3)527-3887				
		Section 2. Haz	ards Identific	ation					
2.1	Classification of the Substa	nce or Mixture:							
2.2	Label Elements:								
	CHE Signal Words	None							
	GHS Signal Word: GHS Hazard Phrases:	None							
		entivovniloblo doto thio ovhot		at alaasifiahla as	anding to CLIC				
		ently available data this subst	lance of mixture is r	IOL CLASSINADIE AC					
	GHS Precaution Phrases:								
			No phrases apply.						
	GHS Response Phrases:								
	No phrases apply.								
	No phrases apply. GHS Storage and Dispose	al Phrases:							
	GHS Storage and Disposa	al Phrases: r Storage and Section 13 for I	Disposal information	1.					
2.3	GHS Storage and Dispose Please refer to Section 7 fo Adverse Human Health	r Storage and Section 13 for I Material may be irritating to the	e mucous membran	es and upper res	piratory tract.				
2.3	GHS Storage and Dispose Please refer to Section 7 fo Adverse Human Health Effects and Symptoms:	r Storage and Section 13 for I Material may be irritating to the May be harmful by inhalation,	e mucous membran ingestion, or skin at	es and upper res osorption.	piratory tract.				
2.3	GHS Storage and Dispose Please refer to Section 7 fo Adverse Human Health Effects and Symptoms:	r Storage and Section 13 for I Material may be irritating to the May be harmful by inhalation, May cause eye, skin, or respir	e mucous membran ingestion, or skin at atory system irritatio	ies and upper res osorption. on.					
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CAS	GHS Storage and Disposa Please refer to Section 7 fo Adverse Human Health Effects and Symptoms: Section # / Hazardous Compo	r Storage and Section 13 for I Material may be irritating to the May be harmful by inhalation, May cause eye, skin, or respir To the best of our knowledge, On 3. Composition/ nents (Chemical Name)/ on No.	e mucous membran ingestion, or skin at ratory system irritation the toxicological pro Information c	es and upper res osorption. operties have not on Ingrediei EC No./	been thoroughly investigated				

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		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				
	In Case of Ingestion.	and tested by medical personnel. Wash out mouth with water provided person is conscious. Never give anything by mouth to an				
	In Case of Ingestion:	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	g A solid water stream may be inefficient.				
	Media:					
5.2	Flammable Properties andNo data available.					
	Hazards:					
		No data available.				
	Flash Pt:	No data.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Autoignition Pt:	No data.				
5.3	Fire Fighting Instructions	s: 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. Accidental Release Measures				
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.				
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,				
	Emergency Procedures:					
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.				
	Precautions:					
6.3		r Contain spill and collect, as appropriate.				
	Up:	$_{ m ng}$ Transfer to a chemical waste container for disposal in accordance with local regulations.				
	ор.					
		Section 7. Handling and Storage				
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.				
7.2		Keep container tightly closed.				
	in Storing:	Store in accordance with information listed on the product insert.				
	Sec	tion 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					

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8.2	Exposure Controls:						
8.2.1	Engineering Controls						
	(Ventilation etc.):	levels below recommended exposure limits.					
8.2.2	ment:						
	Eye Protection:	glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
		NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe					
		Wash thoroughly after handling.					
	I	No data available.					
	Se	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physi	cal and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A crystalline solid					
	pH:	No data.					
	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 or	mm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1): No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~10 mg/ml in PBS (pH 7.2); ~0.3 mg/ml in EtOH; ~30 mg/ml in DMSO; ~20 mg/ml in DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatu						
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weig	ht: C6H12O6 180.2					

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			Section 10. Stability a	and Reactiv	vity				
10.1	Reactiv	vity:	No data available.						
Image: No.2 Stability: Unstable [] Stable [X]									
10.3 Stability Note(s):			Stable if stored in accordance with inf	ormation listed of	on the product	insert.			
	Polyme	erization:	Will occur [] Will not occur [X]						
10.4	Conditi	ons To Avoid:	No data available.						
10.5 Incompatibility - Materials strong oxidizing agents									
	To Avo	id:							
10.6	Hazardo	ous	carbon dioxide						
	Decom	position or	carbon monoxide						
	Byprod	ucts:							
			Section 11. Toxicologi	cal Informa	ation				
11.1	Informa	ation on	The toxicological effects of this produce			udied.			
	Toxicol	ogical Effects:	L-(–)-Sorbose - Toxicity Data: Oral LE				12800 mg/kg		
		-	Oral LD (mouse): >27500 mg/kg; Intra	aperitoneal LD50	0 (mouse): 136	600 mg/kg;			
	Chronic	c Toxicological	Only select Registry of Toxic Effects of	of Chemical Sub	stances (RTE	CS) data is pre	esented here.		
	Effects	:	See actual entry in RTECS for comple	ete information.					
			L-(–)-Sorbose RTECS Number: WG3	195025					
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
87	-79-6	L-Sorbose		n.a.	n.a.	n.a.	n.a.		
		•	Section 12. Ecologica	al Informat	ion	•	ł		
12.1	Toxicity	/·	Avoid release into the environment.		-				
		,.	Runoff from fire control or dilution wat	er may cause p	ollution.				
12.2	Persiste	ence and	No data available.						
	Degrad								
12.3	-	umulative	No data available.						
-	Potentia	al:							
12.4	Mobility	y in Soil:	No data available.						
12.5		of PBT and vPvB	No data available.						
	assessi	ment:							
12.6		dverse effects:	No data available.						
				Considerat	ione				
42.4	Waat - 7		Section 13. Disposal C						
13.1									
			Section 14. Transpo	rt Informat	ion				
14.1	LAND	TRANSPORT (US E	ЮТ):						
		er Shipping Name:	Not dangerous goods.						
_		rd Class:							
U	N/NA Nu								
14.1		TRANSPORT (Euro							
		Shipping Name:	Not dangerous goods.						
	N Numbe								
н	azard Cla	ass:							

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ICAO/IATA Shipping Name:

e: Not dangerous goods.

Additional Transport Information:

Section 15. Regulatory Information

Transport in accordance with local, state, and federal regulations.

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
87-79-6	L-Sorbose		No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists		•	
87-79-6	L-Sorbose		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Regulatory In Statement:	formation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Ot	her Informatio	on		
Revision Date	:	03/09/2019				
Additional Inf This Product:	ormation About	No data available.				
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.				