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		according t	o Regulation (EC) No. 1907/2006 as a	mended by (EC) No. 2015/8	830 and US OSHA HCS	2015			
		ů	entification of the Substar						
					the company/or	IUEITAKII IY			
1.1	Product Code: 11876 Product Name: LalphaHydroxyglutaric Acid (sodium salt) Synonyms: 2S-hydroxy-pentanedioic acid, disodium salt; L-2-HG; L-2-Hydroxyglutarate;								
.2	Relevant identified uses of the substance or mixture and uses advised against:								
	Relev	ant identified uses:	For research use only, no	ot for human or veter	rinary use.				
.3	Details	of the Supplier of the	e Safety Data Sheet:						
		any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	pany					
		site address:	www.caymanchem.com						
		nation:		Cayman Chemical Company +1 (734)					
1.4 Emergency telephone number Emergency Contact:			CHEMTREC Within USA and Canada: +1			1 (800)424-9300 1 (703)527-3887			
			Section 2. Ha	zards Identific	cation				
2.1	Classifi	cation of the Substa	nce or Mixture:						
2.2	Label E	lements:							
2.3	GHS No ph GHS No ph GHS Pleas Advers	Precaution Phrases: arases apply. Response Phrases: arases apply. Storage and Disposa e refer to Section 7 for se Human Health	ently available data this sub I Phrases: Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	Disposal information he mucous membran , ingestion, or skin a	n. nes and upper res ibsorption.	-			
						been thoroughly investigated			
			0 0	/Information	on Ingredier	. 1 .			
		Sectio	on 3. Composition		en nigi ealei	nts			
CAS	# / CS #	1	nents (Chemical Name)/	Concentration	EC No./ EC Index No.	CHS Classification			

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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					
		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					
		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 Media:	A solid water stream may be inefficient.					
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 breathing vapors and provide adequate ventilation.					
	Protective Equipment an	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,					
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).					
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:	hgTransfer to a chemical waste container for disposal in accordance with local regulations.					
		Section 7. Handling and Storage					
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.					
	in Handling:	Avoid prolonged or repeated exposure.					
7.2	Precautions To Be Taken	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		Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne							
	(Ventilation etc.): levels below recommended exposure limits.								
8.2.2	Personal protection equipment:								
	Eye Protection:	Safety glasses							
	Protective Gloves:	Compatible chemical-resistant gloves							
	Other Protective Clothing:	Lab coat							
	Respiratory Equipment	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 shower							
		Wash thoroughly after handling.							
	I	No data available.							
	Section 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. No data. No data. No data available.							
	Flash Pt:								
	Evaporation Rate:								
	Flammability (solid, gas):								
	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);							
	Octanol/Water Partition	No data.							
	Coefficient:								
	Autoignition Pt:	No data.							
	Decomposition Temperatu	No data.							
	Viscosity:	No data.							
9.2	Other Information								
	Percent Volatile:	No data.							
	Molecular Formula & Weig								



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			Secti	on 10. Stability a	nd Reac	tivity			
10.1									
10.2	Stability								
10.3	Stability		Stable if stored in accordance with information listed on the product insert.						
	Polymerization: Will occur [] Will not occur [X]								
10.4	-		-						
10.4									
10.5	0.5 Incompatibility - Materials strong oxidizing agents To Avoid:								
10.6	Hazardo		carbon dioxi	de					
		osition or	carbon mon						
	Byprodu		sodium oxides						
	Section 11. Toxicological Information								
11.1	Informat	ion on		gical effects of this produc			udied		
		gical Effects:			t have not be	en morougniy su			
Carci	nogenicity	-	NTP? No	IARC Monographs? No	OSHA I	Regulated? No			
						-		00114	
CAS		Hazardous Com			NTP	IARC	ACGIH	OSHA	
635	12-50-5	LalphaHydroxy	/glutaric Acid	(sodium salt)	n.a.	n.a.	n.a.	n.a.	
			Sect	ion 12. Ecologica	l Informa	ation			
12.1	Toxicity:		Avoid releas	e into the environment.					
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	nce and	No data ava	ilable.					
	Degrada	bility:							
12.3	Bioaccu	mulative	No data ava	No data available.					
	Potentia	l:							
12.4	2.4 Mobility in Soil: No data available.								
12.5	Results	of PBT and vPvB	No data ava	ilable.					
	assessm	ent:							
12.6	12.6 Other adverse effects: No data available.								
			Sectio	on 13. Disposal C	onsidera	itions			
13.1	•								
	Section 14. Transport Information								
14.1	LAND T	RANSPORT (US I	DOT):						
D	OT Prope	Shipping Name:	Not dan	gerous goods.					
	OT Hazaro								
U	N/NA Num	nber:							
14.1	LAND T	RANSPORT (Euro	opean ADR/F	RID):					
A		nipping Name:	-	gerous goods.					
	N Number								
н	azard Clas	ss:							



14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
63512-50-5	LalphaHydroxyglutaric Acid (sodium salt)		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	ents (Chemical Name) Other US EPA or State Lists		•	
63512-50-5	LalphaHydroxyglutaric Acid (sodium salt)		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Info Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Informatio	on		
Revision Date:		10/26/2018				
Additional Information About This Product:		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.				