

Revision: 01/29/2020 Supersedes Revision: 09/26/2015

		accordi	ng to Regulation (EC) No. 1907/2006 as a	amended by (EC) No. 2015	1830 and LIS OCHY HOC	2015			
			Identification of the Substar	• • •					
	D				i the Company/O	nuenaking			
1.1		t Code: t Name:	16334 3 Hydroxyalutaria Asid						
	Synony		3-Hydroxyglutaric Acid	acid: 2.4-Dideoxyne	nid: 2.4 Dideovupontorio Acid. 2.4C: 2.4udrovuglutoroto:				
	Gynony			cid; 2,4-Dideoxypentaric Acid, 3-HG; 3-Hydroxyglutarate; id; 3-Hydroxypentanedioic Acid; 3-OH-GA;					
1.2	Balaya	nt identified uses							
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	Details of the Supplier of the Safety Data Sheet: Company Name: Cayman Chemical Company								
	Company Name.		1180 E. Ellsworth Rd.	Cayman Chemical Company					
			Ann Arbor, MI 48108						
	Webs	site address:	www.caymanchem.com						
	Inform	nation:	Cayman Chemical Com	bany	+1 (73	4)971-3335			
1.4	Emero	ency telephone nu		2	X -				
	-	gency Contact:	CHEMTREC Within USA	A and Canada.	+1 (80	00)424-9300			
	Line	goney contact.	CHEMTREC Outside US)3)527-3887			
			Section 2. Ha	zards Identifi					
	01								
2.1		ication of the Subs	stance or Mixture:						
2.2	Label E	lements:							
	GHS	Signal Word:	None						
	GHS Hazard Phrases:								
	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.								
	GHS	Precautionary Phr	ases:						
	No phrases apply.								
	GHS Response Phrases:								
	No pł	No phrases apply.							
	GHS Storage and Disposal Phrases:								
	Please refer to Section 7 for Storage and Section 13 for Disposal information.								
	UFI:								
2.3		se Human Health	Material may be irritating to t	the mucous membra	anes and upper re	spiratory 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.								
		, and ejinptemet	May cause eye, skin, or resp	-	-				
			• • •			t been thoroughly investigate			
					-				
		360	tion 3. Composition			1115			
		1		Concentration	EC No./				
CAS RTE	; # / CS #	Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC Index No.	GHS Classification			

Multi-region format



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		Section 4. First Aid Measures		
4.1				
	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 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 Media:	A solid water stream may be inefficient.		
5.2	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	: 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 and	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.		
		ng Transfer to a chemical waste container for disposal in accordance with local regulations.		
	Up:			
		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:			
8.2	Exposure Controls:			
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.		

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	(Ventilation etc.):						
8.2.2							
	Eye Protection:	Safety glasses					
	Protective Gloves:						
	Other Protective Clothing						
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	(Specity 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 show					
		n thoroughly after handling.					
		No data available.					
	S	ection 9. Physical and Chemical Properties					
0.4							
9.1	-	sical and Chemical Properties					
	Physical States:	[] Gas [] Liquid [X] Solid A crystalline solid					
	Appearance and Odor: pH:	No data.					
	рп. Melting Point:	No data.					
	Boiling Point:	No data.					
	Flash Pt:	No data.					
	Evaporation Rate:	No data.					
	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	I): No data.					
	Specific Gravity (Water =	,					
	Solubility in Water:	No data.					
	Solubility Notes:	~10 mg/ml in PBS (pH 7.2); ~30 mg/ml in EtOH, DMSO, & DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperat						
	Viscosity:	No data.					
9.2	Other Information						
9.2	Percent Volatile:	No data.					
	Molecular Formula & Wei						
		5					
		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	Incompatibility - Material	s strong oxidizing agents					
	To Avoid:						
10.6	Hazardous	carbon dioxide					
		carbon monoxide					
		Multi-region forn					



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SAFETY DATA SHEET **3-Hydroxyglutaric Acid**

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	Decomposition or							
	Byprodu	icts:						
			Section 11. Toxico	logical Infor	mation			
11.1	Informat	ion on	The toxicological effects of this	product have not	been thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
638	8-18-6	3-Hydroxyglutaric	Acid	n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecolo	ogical Inform	nation			
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.								
	Degrada	bility:						
12.3	2.3 Bioaccumulative		No data available.					
Potential:								
12.4	Mobility in Soil:		No data available.					
12.5	Results of PBT and vPvB		3 No data available.					
assessment:								
12.6	Other ac	lverse effects:	No data available.					
			Section 13. Dispo	sal Conside	rations			
13.1	Waste D	isposal Method:	Dispose in accordance with loc	al, state, and fede	ral regulations.			
			Section 14. Trar	sport Inforn	nation			
14.1	LAND T	RANSPORT (US D	OT):					
D	OT Prope	r Shipping Name:	Not dangerous goods.					
D	OT Hazaro	d Class:						
U	N/NA Num	nber:						
14.1	LAND T	RANSPORT (Euro	pean ADR/RID):					
AI	DR/RID SI	nipping Name:	Not dangerous goods.					
U	N Number	:						
Ha	azard Clas	SS:						
14.3		NSPORT (ICAO/I						
	ICAO/IATA Shipping Name: Not dangerous goods.							
_	UN Number: Packing Group: Hazard Class:							
				and state and for				
	ional Traı nation:	isport	Transport in accordance with lo	Joal, State, and let	ierai regulations.			
			Section 15. Regu	latory Inform	nation			
			•	•	nation			
EPA S		i	ents and Reauthorization Act ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	6 34	3 (TRI)	
	* 3-18-6	3-Hydroxyglutaric		No	No	No		
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CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists		
638-18-6	3-Hydroxyglutario	c Acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
Regulatory Info Statement:	rmation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.			
		Section 16. Oth	er Information		
Revision Date:		01/29/2020			
Additional Information About This Product:		No data available.			
This Product: Company Policy or Disclaimer:		currently available to us. However express or implied, with respect	s believed to be accurate and represents the best information er, we make no warranty of merchantability or any other warranty, to such information, and we assume no liability resulting from its wn investigations to determine the suitability of the information for		