

SAFETY DATA SHEET

.alpha.-Hydroxyglutaric Acid (sodium salt)

Revision: 12/12/2018 Supersedes Revision: 11/12/2014

		according to	Regulation (EC) No. 1907/2006 as a	mended by (EC) No. 2015/83	30 and US OSHA HCS	2015
		Section 1. Ide	ntification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking
1.1	Product Product Synony	Name: ms:	16374 .alphaHydroxyglutaric A 2-hydroxy-pentanedioic a	acid, disodium salt; 2-		utaric Acid;
1.2		it identified uses of that identified uses:	ne substance or mixture a For research use only, no	-	-	
1.3	Details	of the Supplier of the any Name:	-			
	Web s	ite address:	www.caymanchem.com			
	Inform		Cayman Chemical Comp	any	+1 (734	4)971-3335
1.4	-	ncy telephone numbe				
	Emerg	ency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887
			Section 2. Haz			5,62.1 0001
2.1	Classifi	cation of the Substan				
2.2						
2.3	GHS Signal Word:NoneGHS Hazard Phrases:Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.GHS Precaution Phrases:No phrases apply.GHS Response Phrases:No phrases apply.GHS Storage and Disposal Phrases:Please refer to Section 7 for Storage and Section 13 for Disposal information.					
		Section	n 3. Composition	/Information c	on Ingredie	nts
CAS # / RTECS #		Hazardous Compon REACH Registratior	ents (Chemical Name)/ 1 No.	Concentration	EC No./ EC Index No.	GHS Classification
40951-21-1 MA3751000		Glutaric acid, 2-hydroxy-	-, disodium salt, L-alpha-	100.0 %	NA NA	No data available.



SAFETY DATA SHEET

.alpha.-Hydroxyglutaric Acid (sodium salt)

Revision: 12/12/2018 Supersedes Revision: 11/12/2014

		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 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.				
	•	g A solid water stream may be inefficient.				
	Media:					
5.2	Flammable Properties ar	ndNo data available.				
	Hazards:	No data available.				
	Flash Pt:	No data available.				
		LEL: No data. UEL: No data.				
	Explosive Limits: Autoignition Pt:	No data.				
5.3	-	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or				
5.5	Fire Fighting instructions	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. 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.				
0.2	Precautions:					
6.3		r Contain spill and collect, as appropriate.				
	Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:					
		Section 7. Handling and Storage				
7.1						
	in Handling:	Avoid prolonged or repeated exposure.				
7.2	-	Neep 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:					

Multi-region format



SAFETY DATA SHEET .alpha.-Hydroxyglutaric Acid (sodium salt)

Revision: 12/12/2018 Supersedes Revision: 11/12/2014

	HEMICAL	Supersedes Revision: 11/12/2014						
8.2	Exposure Controls:							
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne						
	(Ventilation etc.):	evels 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	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						
	١	Nash thoroughly after handling.						
	1	No data available.						
	Se	ction 9. Physical and Chemical Properties						
9.1		cal and Chemical Properties						
3.1	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);						
	Octanol/Water Partition	No data.						
	Coefficient:							
	Autoignition Pt:	No data.						
	Decomposition Temperatur	No data.						
	Viscosity:	No data.						
9.2	Other Information							
	Percent Volatile:	No data.						
	Molecular Formula & Weigl	ht: C5H6O5 • 2Na 192.1						



SAFETY DATA SHEET .alpha.-Hydroxyglutaric Acid (sodium salt)

Revision: 12/12/2018 Supersedes Revision: 11/12/2014

			Section 10. Stability ar	nd Reacti	ivity			
10.1	· · ·							
10.2	Stability: Unstable [] Stable [X]							
10.3	-	y Note(s):	Stable if stored in accordance with info	mation listed	on the product	insert.		
	Polyme	rization:	Will occur [] Will not occur [X]					
10.4	.4 Conditions To Avoid: No data available.							
10.5	-	-	s strong oxidizing agents					
	To Avoi							
10.6	Hazardous		carbon dioxide					
	Decomposition or Byproducts:		carbon monoxide sodium oxides					
	Бургоц							
			Section 11. Toxicologic					
11.1	Informa		The toxicological effects of this product					
	IOXICOI	ogical Effects:	.alphaHydroxyglutaric Acid (sodium sa mg/kg;	ait) - TOxicity L	Jata: Intrapento	oneal LD50 (m	ouse): 4500	
	Chronic	: Toxicological		Chemical Sub	ostances (RTF)	CS) data is pre	sented here	
	Effects:	-	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.					
			alphaHydroxyglutaric Acid (sodium sa	alt) RTECS Nu	umber: MA375	1000		
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
409	51-21-1	Glutaric acid, 2-hy	ydroxy-, disodium salt, L-alpha-	n.a.	n.a.	n.a.	n.a.	
		•	Section 12. Ecological	Informat	tion	•	•	
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.			No data available.					
Degradability:								
12.3 Bioaccumulative No data available.								
	Potentia	al:						
12.4	Mobility in Soil: No data available.							
12.5	Results	of PBT and vPvB	No data available.					
	assessi	ment:						
12.6	Other a	dverse effects:	No data available.					
			Section 13. Disposal Co	onsiderat	tions			
13.1	Waste I	Disposal Method:	Dispose in accordance with local, state	, and federal r	regulations.			
			Section 14. Transport	Informat	tion			
14.1	LAND 1	FRANSPORT (US E	DOT):					
D		er Shipping Name:						
	OT Hazai							
U	N/NA Nu	mber:						
14.1	LAND	FRANSPORT (Euro	opean ADR/RID):					
А		Shipping Name:	Not dangerous goods.					
	N Numbe							
н	azard Cla	ass:						
н	azard Cla	ass:						



SAFETY DATA SHEET .alpha.-Hydroxyglutaric Acid (sodium salt)

10 (Sodium salt) Revision: 12/12/2018 Supersedes Revision: 11/12/2014

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

: Not dangerous goods.

Additional Transport

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

Information:

Section 15. Regulatory Information

EPA SARA (Su	uperfund Amendr	nents and Reauthorization Act of	of 1986) Lists				
CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
40951-21-1 Glutaric acid, 2-h		ydroxy-, disodium salt, L-alpha-	No	No	No		
CAS #	Hazardous Com	zardous Components (Chemical Name)		Other US EPA or State Lists			
40951-21-1	Glutaric acid, 2-hydroxy-, disodium salt, L-alpha-		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
Section 16. Other Information							
Revision Date:		12/12/2018					
Additional Information About		No data available.					
This Product:							
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.					