

SAFETY DATA SHEET Chicoric Acid

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		Section 1. Ic	lentification of the Substan	ice/Mixture and of	f the Company/U	ndertaking		
.1	Produc	t Code:	24960					
	Produc	t Name:	Chicoric Acid					
	Synony	ms:	(2R,3R)-2,3-bis[[(2E)-3-(3	(3,4-dihydroxyphenyl)-1-oxo-2-propen-1-yl]oxy]-butanedioic acid;				
	Dicaffeoyltartaric Acid; L-Chicoric Acid; NSC 99173;							
.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 vete	erinary use.			
1.3	Details of the Supplier of the Safety Data Sheet:							
			Cayman Chemical Comp 1180 E. Ellsworth Rd.	any				
			Ann Arbor, MI 48108					
	Web s	site address:	www.caymanchem.com					
	Inform	nation:	Cayman Chemical Comp	any	+1 (73	4)971-3335		
1.4	Emerge	ency telephone num	ber:					
	Emerg	gency Contact:	CHEMTREC Within USA			0)424-9300		
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887		
			Section 2. Haz	zards Identifi	ication			
2.1	Classifi	cation of the Substa	ance or Mixture:					
2.2	Label E	lements:						
	GHS S	Signal Word:	None					
	GHS Hazard Phrases:							
	Based	d on evaluation of cur	rently available data this sub	stance or mixture is	s not classifiable ad	cording to GHS.		
	GHS	Precaution Phrases:						
	No phrases apply.							
	GHS	Response Phrases:						
		rases apply.						
	GHS Storage and Disposal Phrases:							
			r Storage and Section 13 for	Disposal information	on.			
2.3	Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.							
	Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.							
	May cause eye, skin, or respiratory system irritation.							
			To the best of our knowledge	, the toxicological p	properties have not	been thoroughly investigated		
		Section	on 3. Composition	/Information	on Ingredie	nts		
CAS	#/	Hazardous Compo	onents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTE		REACH Registratio	. ,		EC Index No.			
70831-56-0		Butanedioic acid,		100.0 %	615-177-5	No data available.		
7083	52090 2,3-bis[[(2E)-3-(3,4-dihydroxyphenyl)-1-oxo-2-prope -1-yl]oxy]-, (2R,3R)-			NA				



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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 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	Flammable Properties an Hazards:	dNo data available.				
		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:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).				
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.				
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	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.				
7.2	Precautions To Be Taker	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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Engineering Controls	se process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
(Ventilation etc.): levels below recommended exposure limits.						
Personal protection equipment:						
Eye Protection: S	y glasses patible chemical-resistant gloves					
Protective Gloves: C						
Other Protective Clothing:Lab coat						
Respiratory Equipment N	H approved respirator, as conditions warrant.					
(Specify Type):						
Work/Hygienic/Maintenan Do not take internally.						
ce Practices: F	acilities storing or utilizing this material should be equipped with an eyewash and a safety showe					
V	/ash thoroughly after handling.					
No data available.						
Sec	ction 9. Physical and Chemical Properties					
Information on Basic Physic	al and Chemical Properties					
Physical States:	[]Gas []Liquid [X]Solid					
Appearance and Odor:	A crystalline solid					
pH:	No data.					
-	No data.					
-	No data.					
	No data.					
-	No data.					
	No data available.					
•	LEL: No data. UEL: No data.					
	nm No data.					
	No data.					
-	No data.					
Solubility Notes:	~0.25 mg/ml in a 1:3 solution of DMF:PBS (pH 7.2); ~25 mg/ml in DMSO; ~30 mg/ml in					
Octanol/Water Partition	DMF; No data.					
	No data.					
-						
	No data.					
-						
	No data.					
	(Ventilation etc.): left Personal protection equipme M Eye Protection: S Protective Gloves: C Other Protective Clothing:La Respiratory Equipment N (Specify Type): Vork/Hygienic/Maintenan D ce Practices: F N Mork/Hygienic/Maintenan D N Comparison N N Information on Basic Physical States: Appearance and Odor: N					

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		Section 10. Stability and	Reactivi	ty				
0.1 Reactivit	t y :	No data available.						
0.2 Stability	:	Unstable [] Stable [X]						
0.3 Stability	Note(s):	Stable if stored in accordance with informa	tion listed on	the product	insert.			
Polymer	ization:	Will occur [] Will not occur [X]						
10.4 Conditio	ons To Avoid:	No data available.						
10.5 Incompa	tibility - Materials	strong oxidizing agents						
To Avoid	1:							
0.6 Hazardo	us	carbon dioxide						
Decomp	osition or	carbon monoxide						
Byprodu	icts:							
		Section 11. Toxicological	Informati	ion				
1.1 Informat	ion on	The toxicological effects of this product have	ve not been th	noroughly stu	udied.			
Toxicolo	gical Effects:	Chicoric Acid - Toxicity Data: Intraperitonea	al TDLO (mou	use): 3 mg/kg	g;			
Chronic	Toxicological	Chicoric Acid - Investigated as a natural pr	oduct.					
Effects:		Only select Registry of Toxic Effects of Che		ances (RTEC	CS) data is pre	sented here		
		See actual entry in RTECS for complete information.						
	Useradous Com	Chicoric Acid RTECS Number: EJ9852090				00114		
CAS #		ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
70831-56-0 Butanedioic ac 2,3-bis[[(2E)-3- xy]-, (2R,3R)-		4-dihydroxyphenyl)-1-oxo-2-propen-1-yl]o	n.a.	n.a.	n.a.	n.a.		
		Section 12. Ecological Ir	formatio	'n	+	•		
2.1 Toxicity:	 :	Avoid release into the environment.						
-		Runoff from fire control or dilution water may cause pollution.						
2.2 Persiste	nce and	No data available.						
Degrada	bility:							
2.3 Bioaccu	mulative	No data available.						
Potentia	l:							
2.4 Mobility	in Soil:	No data available.						
	of PBT and vPvB	No data available.						
2.5 Results	ient:							
I2.5 Results assessm	lverse effects:	No data available.						
assessm	verse enects.							
assessm		Section 13. Disposal Con	sideratio	ns				
	lvore	se effects:	se effects: No data available.					

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Multi-region format

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CHEMICAL		Contian 11 Tran	oport Inform	otion		
		Section 14. Trans	sport informa	allon		
		-				
		opean ADR/RID): Not dangerous goods.				
14.3 AIR TR	ANSPORT (ICAO/	IATA):				
ICAO/IATA Additional Tra Information:	Shipping Name:	Not dangerous goods. Transport in accordance with lo	cal, state, and fede	ral regulations.		
		Section 15. Regul	atory Inform	ation		
EPA SARA (Su	uperfund Amendm	nents and Reauthorization Act o	of 1986) Lists	_		
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
70831-56-0	Butanedioic acid, 2,3-bis[[(2E)-3-(3 pen-1-yl]oxy]-, (2	,4-dihydroxyphenyl)-1-oxo-2-pro	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists			
70831-56-0	-56-0 Butanedioic acid, 2,3-bis[[(2E)-3-(3,4-dihydroxyphenyl)-1-oxo-2-pro pen-1-yl]oxy]-, (2R,3R)-		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Oth	ner Informatio	on		
Revision Date:		06/30/2018				
Additional Info This Product:	rmation 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.				