

Revision: 06/09/2018

	accord	ing to Regulation (EC) No. 1907/2006 as amended by	y (EC) No. 1272/2008
	Section 1. Ide	entification of the Substance/Mixture and of	the Company/Undertaking
1.1	Product Code: Product Name: Synonyms:	24962 (-)-Gallocatechin Gallate 3,4,5-trihydroxy-benzoic acid, (2S,3R)-3,4-dihydro-5,7-dihydroxy-2-(3,4,5-tr (–)-GCG; NVP-XAA225;	ihydroxyphenyl)-2H-1-benzopyran-3-yl ester;
1.2	Relevant identified uses of the	he substance or mixture and uses advised a	gainst:
	Relevant identified uses:	For research use only, not for human or veter	rinary use.
1.3	Details of the Supplier of the Company Name:	Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	
	Web site address:	www.caymanchem.com	
	Information:	Cayman Chemical Company	+1 (734)971-3335
1.4	Emergency telephone numb		
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887
		Section 2. Hazards Identific	cation
2.2	Acute Toxicity: Oral, Categ Skin Corrosion/Irritation, C Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements:	Category 2	
	P264: Wash {hands} thoroug P280: Wear {protective glove GHS Response Phrases: P301+312: IF SWALLOWEE P302+352: IF ON SKIN: Wa P304+340: IF INHALED: Re P305+351+338: IF IN EYES to do. Continue rinsing. P330: Rinse mouth.	ritation. / irritation. /fume/gas/mist/vapors/spray}.	vsician if you feel unwell.



Multi-region format

	CHEMICAL D227	1212: If any irritation	a paraiata, gat madiaal advica/	ttontion						
		-	n persists, get medical advice/a							
			aminated clothing and wash it before reuse.							
			sal Phrases:							
			for Storage and Section 13 for	-	on.					
2.3		e Human Health	Causes serious eye irritation							
	Effects	and Symptoms:	Causes skin irritation.							
			Harmful if swallowed.							
				Material may be irritating to the mucous membranes and upper respiratory tract.						
			May be harmful by inhalation or skin absorption. May cause respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.							
		1	tion 3. Composition	1		1				
CAS RTE		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification				
423	3-96-9	(2S,3R)-2-(3,4,5-Tril	hydroxyphenyl)-3,4-dihydro-1(2H	100.0 %	636-979-1	Acute Tox.(O) 4: H302				
DH90	00000)-benzopyran-3,5,7-	triol 3-(3,4,5-trihydroxybenzoate)		NA	Skin Corr. 2: H315				
						Eye Damage 2: H319				
						STOT (SE) 3: H335				
			Section 4. Fi	rst Aid Meas	ures					
4.1	Descri	ption of First Aid								
	Measu	res:								
	In Case	e of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.							
			Get immediate medical attention.							
	In Case	e 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	e 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	e 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 Me	asures					
5.1	Suitabl	le Extinguishing	Use alcohol-resistant foam, o	carbon dioxide, wate	er, or dry chemical	spray.				
	Media:		Use water spray to cool fire-e	exposed containers.						
		0 0	A solid water stream may be	inefficient.						
_	Media:									
5.2	Flamm Hazard	-	dNo data available.							
	nazaru	15.	No data available.							
		- .								
	Flash F		No data.							
	-	ive Limits:	LEL: No data.	UEL: No d	ata.					
	-	nition Pt:	No data.							
5.3	Fire Fig	ghting Instructions	s: As in any fire, wear self-conta		-					
			equivalent), and full protective gear to prevent contact with skin and eyes.							



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		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment and	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	Methods and Material For	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 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.
	Secti	on 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
	(Ventilation etc.):	levels below recommended exposure limits.
8.2.2	Personal protection equip	ment:
	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.
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
		Wash thoroughly after handling.
		No data available.
	Se	ction 9. Physical and Chemical Properties
9.1	-	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.
	Tapor Density (VS. All = 1)	
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	Specific Gravity (Water =		•	No data.						
	-	in Water:		No data.						
	Solubility	Notes:		~0.3 mg/ml in	PBS (pH 7.2); ~10 m	g/ml in DMS	O & DMF;			
	Octanol/Water Partition			No data.						
	Coefficie	nt:								
	Autoignit	ion Pt:		No data.						
	Decompo	sition Temperate	ure:	No data.						
	Viscosity	:		No data.						
9.2	Other Info	rmation								
	Percent V	olatile:		No data.						
	Molecula	r Formula & Weig	ght:	C22H18O11	458.4					
			-	ation 10		Decetiv	:1. ,			
					. Stability and	Reactiv	ity			
10.1	Reactivity	/:	No data	a available.						
10.2	Stability:		Unstabl		ble [X]					
10.3	Stability I	Note(s):	Stable i	le if stored in accordance with information listed on the product insert.						
	Polymeriz	zation:	Will occ	cur[] Wi	ll not occur [X]					
10.4	Condition	ns To Avoid:	No data	a available.						
10.5	Incompat	ibility - Materials	strong o	oxidizing agen	ts					
	To Avoid	:								
10.6	Hazardou	IS	carbon	dioxide						
	Decompo	sition or	carbon	monoxide			Tration Substances (RTECS) data is presented hereion. 20000 IARC ACGIH OSHA in.a. n.a. n.a. ACGIH OSHA			
	Byproduc	cts:								
			500	otion 11	Tovicological	Information	lion			
					0					
11.1	Information			-	-					
	Toxicolog	gical Effects:	(-)-Gallo	ocatechin Gall	ate - Toxicity Data: O	ral LD50 (m	ouse): >1 gm	/kg;		
	Chronic 1	loxicological			ate Investigated as a	-				
			•	select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
				-	TECS for complete in					
			(-)-Gallo	ocatechin Gall	ate RTECS Number:	DH9000000				
CAS	#	Hazardous Com	ponents	(Chemical N	ame)	NTP	IARC	ACGIH	OSHA	
423		(2S,3R)-2-(3,4,5- ⁻ opyran-3,5,7-triol	-		dihydro-1(2H)-benz zoate)	n.a.	n.a.	n.a.	n.a.	
						formatic				
	T - 1 - 14				. Ecological Ir	iomail	7 11			
12.1	Toxicity:				environment.		lution			
					ol or dilution water ma	ay cause poi	lution.			
12.2	Persisten		No data	a available.						
	Degradab	oility:								
12.3	Bioaccun Potential:		No data	a available.						
12.4	Mobility i		No data	a available.						
	-									
12.5	assessme	f PBT and vPvB ent:	NO data	a avallable.						
12.6		verse effects:	No data	a available.						
1										



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		Section 13. Dispos	al Considerat	ions				
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.								
		Section 14. Trans	sport Informat	tion				
14.1 LAND	TRANSPORT (US	DOT):						
DOT Prop	er Shipping Name	: Not dangerous goods.						
DOT Haza	rd Class:							
UN/NA Nu	imber:							
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):						
	Shipping Name:	Not dangerous goods.						
UN Numb								
Hazard Cl								
	ANSPORT (ICAO/	•						
	A Shipping Name:	Not dangerous goods. Transport in accordance with loc	cal state and fodoro	l regulations				
Additional Tra	ansport	Transport in accordance with 100	ai, siale, and iedera	r regulations.				
		Contine 15 Degul	otom / loformo	tion				
		Section 15. Regula	•	lion				
-		nents and Reauthorization Act o	-	0.004.00				
CAS # 4233-96-9	_	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
4233-90-9	2H)-benzopyran-							
	3-(3,4,5-trihydrox							
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	· State Lists	ł			
4233-96-9	1 · · ·	Trihydroxyphenyl)-3,4-dihydro-1(CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
	2H)-benzopyran- 3-(3,4,5-trihydrox							
				1010 1000				
Regulatory In Statement:	formation	This SDS was prepared in accor No.1272/2008.	dance with 29 CFR	1910.1200 and R	egulation (EC)			
Statement.				_				
		Section 16. Oth	er Informatio	n				
Revision Date	:	06/09/2018						
	ormation About	No data available.						
This Product:					and the head information			
Company Poli	cy 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						

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