

	Revision:	03/02/2018
Supersedes	Revision:	02/26/2015

	acco	ording to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008				
		dentification of the Substance/Mixture and of t	. ,				
1	Product Code:	10004235					
•	Product Name:	cis-Resveratrol					
	Synonyms:	5[(1Z)-2-(4-hydroxyphenyl)ethenyl]-1,3-benze	nediol: (7)-Resveratrol:				
2		the substance or mixture and uses advised ag					
-	Relevant identified uses:						
,	······································						
3	Details of the Supplier of the Safety Data Sheet: Company Name: Cayman Chemical Company						
	Company Name.	1180 E. Ellsworth Rd.					
		Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
Ļ	Emergency telephone num	iber:					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
1	Classification of the Subst						
I							
	Flammable Liquids, Category 2						
	Skin Corrosion/Irritation	Category 3					
	Skin Corrosion/Irritation	•••					
	Serious Eye Damage/Eye	e Irritation, Category 1					
2		e Irritation, Category 1					
2	Serious Eye Damage/Eye Skin Sensitization, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lice H316: Causes mild skin irr H317: May cause an allerge	e Irritation, Category 1 gory 1 Danger quid and vapor. itation. gic skin reaction.					
2	Serious Eye Damage/Eye Skin Sensitization, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lice H316: Causes mild skin irr H317: May cause an allergo H318: Causes serious eye	a Irritation, Category 1 gory 1 Danger quid and vapor. itation. gic skin reaction. a damage.					
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22	Serious Eye Damage/Eye Skin Sensitization, Catego Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lice H316: Causes mild skin irr H317: May cause an allergo H318: Causes serious eye GHS Precaution Phrases P210: Keep away from {he P261: Avoid breathing {dus P272: Contaminated work P280: Wear {protective glos GHS Response Phrases: P302+352: IF ON SKIN: W P303+361+353: IF ON SK	a Irritation, Category 1 gory 1	e. ion}. aminated clothing. Rinse skin with				
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2	Serious Eye Damage/Eye Skin Sensitization, Catego Label Elements:	e Irritation, Category 1 gory 1	e. ion}. aminated clothing. Rinse skin with				



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			aminated clothing and wash it	before reuse.			
		Storage and Dispo					
			ection 7 for Storage and Section 13 for Disposal information.				
2.3		e Human Health	Causes mild skin irritation.				
	Effects	and Symptoms:	Causes serious eye damage				
			Material may be irritating to t			spiratory tract.	
			May be harmful by inhalation	-	absorption.		
			May cause an allergic skin re				
			May cause eye or respiratory	-	<i>e</i> 1		
			To the best of our knowledge	e, the toxicological p	properties have no	t been thoroughly investigated.	
		Sec	tion 3. Composition	/Information	on Ingredie	nts	
CAS RTE	;#/ CS#	Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification	
614	34-67-1	cis-Reveratrol		5.0 %	694-803-9	Acute Tox.(O) 4: H302	
NA					NA	Skin Corr. 2: H315	
						Skin Sens. 1: H317	
						Eye Damage 1: H318	
64	l-17-5	Ethyl alcohol		95.0 %	200 579 0	STOT (SE) 3: H335 H336	
-	B00000			33.0 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225	
			Section 4. Fi	rst Aid Meas	ures		
l.1	Measu	ption of First Aid res:					
	In Case	e of Inhalation:			al respiration or gi	ve oxygen by trained personnel.	
			Get immediate medical attention. Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated				
	In Case	e of Skin Contact:					
			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. Wash out mouth with water provided person is conscious. Never give anything by mouth to an				
	In Case	e of Ingestion:					
			unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by				
			medical personnel.				
1.2	-		d May cause anemia, cough, C				
	Effects	, Both Acute and	(weakness, exhaustion), liver	damage, narcosis,	reproductive effe	cts, teratogenic effects.	
	Delaye	d:					
			Section 5. Fire	<u> </u>			
5.1		le Extinguishing	Use alcohol-resistant foam, o			l spray.	
	Media:		Use water spray to cool fire-exposed containers.				
	Unsuitable Extinguishing A solid water stream may			inefficient.			
	Media:						
5.2		-	dCan release vapors that form	-	-	at or above the flashpoint.	
	Hazard	ls:	Container explosion may occur under fire conditions.				
			Emits toxic fumes under fire conditions.				
			Sensitive to static discharge.				
			Vapors can travel to a source of ignition and flash back.				
			No data available.				
						Multi-region form	
						waiti-region form	



	Flash Pt: Explosive Limits:	14.00 C M	lethod Used: Close 5 at 25.0 C	ed Cup UEL: 19.0% at 25.0 C				
	Autoignition Pt:	363.00 C						
5.3	Fire Fighting Instructions	s: As in any fir	e, wear self-contain	ed breathing apparatus pressure-dema	and (NIOSH approved or			
		equivalent), and full protective gear to prevent contact with skin and eyes.						
		Note: Flamr	nable as diluted in e	ethanol.				
		Section	6. Accidenta	al Release Measures				
6.1	Protective Precautions,			ovide adequate ventilation.				
	Protective Equipment an			NIOSH approved self-contained breathing				
	Emergency Procedures:	and approp	riate personal prote	ction (rubber boots, safety goggles, and	d heavy rubber gloves).			
6.2	Environmental	Take steps	to avoid release int	o the environment, if safe to do so.				
	Precautions:							
6.3	Methods and Material Fo	-						
		ngTransfer to	a chemical waste c	ontainer for disposal in accordance with	n local regulations.			
	Up:							
		Sec	tion 7. Hand	ling and Storage				
7.1	Precautions To Be Taker							
	in Handling:	Keep away from sources of ignition.						
		Take precautionary measures against static discharge.						
7.2		Keep away from heat, sparks, and flame.						
	in Storing:	Keep container tightly closed. Store in accordance with information listed on the product insert.						
	Other Precautions:	Hygroscopic						
		tion 9 E		trale/Doroonal Drataction				
8.1	Exposure Parameters:			trols/Personal Protection				
CAS #	•	Juri	sdiction	Recommended Exposure Limits	Notations			
64-17	-5 Ethyl alcohol	ACG	IH TLV	TLV: 1000 ppm				
	·	Fran	ce VL	TWA: 1900 mg/m3 (1000 ppm)				
				STEL: 9500 mg/m3 (5000 ppm)				
			IA PELs	PEL: 1000 ppm				
		Brita	in EH40	TWA: 1920 mg/m3 (1000 ppm) STEL: ()				
8.2	Exposure Controls:				I			
8.2.1	Engineering Controls	Use proces	s enclosures, local e	exhaust ventilation, or other engineering	g controls to control airborne			
	(Ventilation etc.):	levels below	recommended exp	osure limits.				
8.2.2	Personal protection equi	pment:						
	Eye Protection:	Safety glasses						
	Protective Gloves:	Compatible chemical-resistant gloves						
	Other Protective Clothing	ig: Lab coat						
	Respiratory Equipment	NIOSH app	roved respirator, as	conditions warrant.				
	(Specify Type):		in to me - 11					
	Work/Hygienic/Maintena			motorial about the activity of with an ar	voweeh and a cofety charge			
	ce Practices:	racilities sto	aning of utilizing this	material should be equipped with an e	yewash and a salety shower.			
					Multi-region format			



F A M E F F E E		ection 9. Physical and Chemical Properties sical and Chemical Properties []Gas [X] Liquid []Solid A solution in ethanol No data.				
F J M E F F E E	Physical States: Appearance and Odor: pH: Melting Point:	[]Gas [X]Liquid []Solid A solution in ethanol				
/ K E F F F E	Appearance and Odor: pH: Melting Point:	A solution in ethanol				
F N F E F	pH: Melting Point:					
N E F E F	Melting Point:	No data.				
E F E F	-					
F E F	Boiling Point:	No data.				
E F E		No data.				
F	Flash Pt:	14.00 C Method Used: Closed Cup				
E	Evaporation Rate:	No data.				
	Flammability (solid, gas):	No data available.				
``	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C				
	Vapor Pressure (vs. Air o	r mm 43 MM_HG at 20.0 C				
	Hg):					
١	Vapor Density (vs. Air = 1): No data.				
5	Specific Gravity (Water =	1): No data.				
5	Solubility in Water:	No data.				
C	Octanol/Water Partition	No data.				
C	Coefficient:					
4	Autoignition Pt:	363.00 C				
[Decomposition Temperat	rure: No data.				
١	Viscosity:	No data.				
.2 0	Other Information					
F	Percent Volatile:	No data.				
N	Molecular Formula & Wei	ght: C14H12O3 228.2				
		Section 10. Stability and Reactivity				
0.1 F	Reactivity:	No data available.				
	Stability:	Unstable [] Stable [X]				
10.2Stability:Unstable []Stable [X]10.3Stability Note(s):Stable if stored in accordance with information listed on the product insert.						
	Polymerization:	Will occur [] Will not occur [X]				
	Conditions To Avoid:	heat, flames and sparks				
	Incompatibility - Materials	ammonia				
l	To Avoid:	peroxides				
		ong oxidizing agents				
0.6 H	Hazardous	carbon dioxide				
	Decomposition or	carbon monoxide				
	-					
E	Byproducts:					



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CHIMICAL				S	upersedes Revis	sion: 02/26/2015	
		Section 11. Toxicolog	gical Informa	ition			
Τοχίςο	ation on logical Effects: c Toxicological ::	The toxicological effects of this pro Ethanol - Toxicity Data: Oral TDLO (rat): 7,060 mg/kg; Oral LD50 (mou (rabbit): 6,300 mg/kg; Inhalation LC ppm (30m); Inhalation TCLO (huma (6h); Inhalation LCLO (mouse): 29, Ethanol - Irritation Data: Eyes (rabb Ethanol - Investigated as a mutage Only select Registry of Toxic Effect See actual entry in RTECS for com Ethanol RTECS Number: KQ63000	(man): 1.14 ml/kg; use): 3,450 mg/kg; (250 (rat): 20,000 pp an): 2,500 mg/m3 (2 300 ppm (7h); bit): 500 mg (24h) m n, reproductive effe as of Chemical Subs uplete information.	Oral TDLO (r Dral LD50 (mo om (10h); Inha 20m); Inhalati hild; Skin (rable ector, and tum	man): 650 mg/ł ouse): 10.5 ml/ lation TCLO (h on LC50 (rat): bit): 20 mg (24 lorigen.	kg; Oral LD50 human): 1,800 5,900 mg/m3 h) moderate;	
Carcinogenici	-	NTP? No IARC Monographs?	No OSHA Re	gulated? No	ACGIH	OSHA	
		nponents (Chemical Name)		-			
61434-67-1 64-17-5	cis-Reveratrol Ethyl alcohol		n.a.	n.a.	n.a. A4	n.a.	
U+-17-U		0 // / 0 - · · ·			^/ ^{7/4}	a.	
		Section 12. Ecologi	cai informati	on			
Degrad I2.3 Bioacc Potenti	ence and lability: umulative ial: y in Soil:	Runoff from fire control or dilution v No data available. No data available. No data available.	vater may cause pc	ollution.			
assess		No data available. No data available.					
		Section 13. Disposal	Considerati	ons			
13.1 Waste	Disposal Method:	Dispose in accordance with local, s					
		Section 14. Transp	ort Informati	on			
14.1 LAND	TRANSPORT (US	•					
	er Shipping Name	-					
DOT Haza		3 FLAMMABLE	LIQUID				
UN/NA Nu	imber:	1170	Packing Group	p:	II		
		ropean ADR/RID): Ethyl Alcohol Solution 1170 3 - FLAMMABLE LIQUID	Packing Grou	p:	II		
					N	Aulti-region for	



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14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Ethyl Alcohol Solution **UN Number:** 1170 Packing Group: Ш Hazard Class: 3 - FLAMMABLE LIQUID IATA Classification: 3 Transport in accordance with local, state, and federal regulations. Additional Transport Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 61434-67-1 cis-Reveratrol No No No 64-17-5 No No Ethyl alcohol No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists CAA HAP.ODC: No: CWA NPDES: No: TSCA: No: CA 61434-67-1 cis-Reveratrol PROP.65: No 64-17-5 Ethyl alcohol CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes -Inventory; CA PROP.65: No This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) **Regulatory Information** No.1272/2008. Statement: Section 16. Other Information **Revision Date:** 03/02/2018 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.