

Revision: 04/01/2019 Supersedes Revision: 02/04/2015

		exercises to Desculation (EC) No. 1007/2004 as	amonded by (EC) No. 201E/0		2015			
		ccording to Regulation (EC) No. 1907/2006 as a						
	Section	1. Identification of the Substar	nce/ivilxture and of i	the Company/Ur	ndertaking			
.1	Product Code:	15352						
	Product Name:	YZ9						
	Synonyms:	7-hydroxy-2-ozo-2H-1-be 7-hydroxycoumarin-3-Ca		-	۶ ۲ ;			
.2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified	uses: For research use only, n	ot for human or veter	inary use.				
1.3	Details of the Supplier of the Safety Data Sheet:							
	Company Name:	Cayman Chemical Comp	bany					
		1180 E. Ellsworth Rd.						
		Ann Arbor, MI 48108						
	Web site address:	www.caymanchem.com						
	Information:	Cayman Chemical Comp	bany	+1 (734	4)971-3335			
1.4	Emergency telephone			4 (00)	2) 404 0000			
	Emergency Contact			-	0)424-9300			
		CHEMTREC Outside US			3)527-3887			
		Section 2. Ha	zards Identific	cation				
2.1	Classification of the S	Substance or Mixture:						
2.2	Label Elements:							
	GHS Signal Word:	None						
	GHS Hazard Phrase	es:						
	Based on evaluation	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.						
	GHS Precaution Phrases:							
	GHS Precaution Ph	rases:						
	GHS Precaution Ph No phrases apply.	rases:						
	No phrases apply.							
	No phrases apply. GHS Response Phr	ases:						
	No phrases apply. GHS Response Phr No phrases apply. GHS Storage and D	ases:						
2.3	No phrases apply. GHS Response Phr No phrases apply. GHS Storage and D	ases: i sposal Phrases: on 7 for Storage and Section 13 for	r Disposal informatior	٦.	-			
2.3	No phrases apply. GHS Response Phr No phrases apply. GHS Storage and D Please refer to Sectio	ases: isposal Phrases: on 7 for Storage and Section 13 for Ith Material may be irritating to t	r Disposal informatior he mucous membrar	n. nes and upper res	-			
2.3	No phrases apply. GHS Response Phr No phrases apply. GHS Storage and D Please refer to Section Adverse Human Heal	ases: isposal Phrases: on 7 for Storage and Section 13 for Ith Material may be irritating to t	r Disposal informatior he mucous membrar n, ingestion, or skin al	n. nes and upper res bsorption.	-			
2.3	No phrases apply. GHS Response Phr No phrases apply. GHS Storage and D Please refer to Section Adverse Human Heal	ases: isposal Phrases: on 7 for Storage and Section 13 for Ith Material may be irritating to t ns: May be harmful by inhalatior May cause eye, skin, or resp	r Disposal informatior he mucous membrar n, ingestion, or skin al piratory system irritati	n. nes and upper res bsorption. on.	-			
2.3	No phrases apply. GHS Response Phr. No phrases apply. GHS Storage and D Please refer to Section Adverse Human Heal Effects and Sympton	ases: isposal Phrases: on 7 for Storage and Section 13 for Ith Material may be irritating to t ns: May be harmful by inhalatior May cause eye, skin, or resp	r Disposal informatior he mucous membrar h, ingestion, or skin al biratory system irritati e, the toxicological pr	n. hes and upper res bsorption. on. operties have not	piratory tract. been thoroughly investigated.			
CAS	No phrases apply. GHS Response Phr No phrases apply. GHS Storage and D Please refer to Sectio Adverse Human Heal Effects and Sympton	ases: isposal Phrases: on 7 for Storage and Section 13 for Ith Material may be irritating to t ns: May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge ection 3. Composition Components (Chemical Name)/	r Disposal informatior he mucous membrar h, ingestion, or skin al biratory system irritati e, the toxicological pr	n. hes and upper res bsorption. on. operties have not	piratory tract. been thoroughly investigated.			

Multi-region format



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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				
	in case of Eye contact.	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.				
		a A solid water stream may be inefficient.				
	Media:					
5.2	Flammable Properties andNo data available. Hazards:					
	nazarus.	No data available.				
	Flash Pt:	No data.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Autoignition Pt:	No data.				
5.3	-	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.				
		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	Methods and Material For Contain spill and collect, as appropriate.					
	Containment and Cleanir	ngTransfer 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	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:					

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8.2							
0.2	Exposure Controls:						
8.2.1	Engineering Controls U	se process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.): le	vels below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	Eye Protection: S	afety glasses					
	Protective Gloves: Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat						
	-	IOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
		acilities storing or utilizing this material should be equipped with an eyewash and a safety shower.					
		/ash thoroughly after handling.					
	No data available.						
	0	tion 0. Dhusiant and Chaminal Dranartian					
	Sec	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	al 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 m	nm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1):	No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2); ~1 mg/ml in EtOH; ~10 mg/ml in DMSO;					
		~30 mg/ml in DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperature	e: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weigh	t: C12H10O5 234.2					

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0.2 Stability: Unstable [] Stable [X] 0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will not occur [X] 0.4 0.4 Conditions To Avoid: No data available. 0.5 0.5 Incompatibility - Materials strong oxidizing agents To Avoid: acabon dioxide 0.6 Hazardous carbon dioxide becomposition or carbon monoxide Byproducts: Section 11. Toxicological Information 1.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied. 2.45 # Hazardous Components (Chemical Name) NTP IARC ACGIH OSHA 6093-71-6 7-hydroxy-2-ozo-2H-1-benzopyran-3-carboxylic acid, ethyl n.a. n.a. n.a. n.a. 2.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution. Reserver Section 12. Ecological Information 2.2 Persistence and boggradability: No data available. Section 13. Disposal Considerations. Section 13. Disposal Considerations. 2.3 Bioaccumulative bassessesment: No data available.						S	upersedes Revis	ion: 02/04/20		
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UN/NA Number: 4.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number:				Not dangerous goods.						
4.1 LAND TRANSPORT (European ADR/RID): ADR/RID Shipping Name: Not dangerous goods. UN Number: Not dangerous goods.										
ADR/RID Shipping Name: Not dangerous goods. UN Number: Vision (Construction)	U	N/NA Nun	nber:							
UN Number:	14.1	LAND T	RANSPORT (Euro	opean ADR/RID):						
				Not dangerous goods.						
Hazard Class:										
	Ha	azard Cla	SS:							

4
Carman
Cayman

Revision: 04/01/2019 Supersedes Revision: 02/04/2015

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

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

Information:

Additional Transport

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
6093-71-6			No	No	No		
CAS # Hazardous Components (Chemical Name)			Other US EPA or State Lists				
6093-71-6	3-71-6 7-hydroxy-2-ozo-2H-1-benzopyran-3-carboxylic acid, ethyl ester			CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Inf Statement:	formation	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:		04/01/2019					
Additional Information About This Product:		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.					