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	Section 1	. Identification of the Substan	nce/Mixture and o	f the Company/U	Indertaking		
.1	Product Code: Product Name: Synonyms:	Name: Oleuropein					
.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant identified us	es: For research use only, n	ot for human or vet	erinary use.			
.3	Details of the Supplier of	f the Safety Data Sheet:					
	Company Name:	Cayman Chemical Com 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	pany				
	Web site address:	www.caymanchem.com					
	Information:	Cayman Chemical Com	pany	+1 (73	34)971-3335		
.4	Emergency telephone n						
	Emergency Contact:	CHEMTREC Within USA CHEMTREC Outside US		-	00)424-9300 03)527-3887		
				· · ·	13/327-3007		
		Soction 2 Un	zorde Idontif	iontion			
		Section 2. Ha	zards Identif	ication			
	Classification of the Su Label Elements: GHS Signal Word:	ostance or Mixture:	zards Identif	ication			
	Label Elements: GHS Signal Word: GHS Hazard Phrases: Based on evaluation of GHS Precaution Phrase No phrases apply. GHS Response Phrase No phrases apply. GHS Storage and Disp	None None currently available data this sub ses: es:	ostance or mixture is	s not classifiable a	ccording to GHS.		
2.1 2.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: Based on evaluation of GHS Precaution Phrase No phrases apply. GHS Response Phrase No phrases apply. GHS Storage and Disp	Distance or Mixture: None Currently available data this sub Ses: Dissal Phrases: 7 for Storage and Section 13 fo Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp	ostance or mixture is r Disposal informati the mucous membra n, ingestion, or skin piratory system irrita	on. anes and upper rea absorption. tion.			
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: Based on evaluation of GHS Precaution Phras No phrases apply. GHS Response Phras No phrases apply. GHS Storage and Disp Please refer to Section Adverse Human Health Effects and Symptoms	Distance or Mixture: None Currently available data this sub Ses: Dissal Phrases: 7 for Storage and Section 13 fo Material may be irritating to the May be harmful by inhalation May cause eye, skin, or resp	r Disposal informati the mucous membra n, ingestion, or skin piratory system irrita e, the toxicological p	on. anes and upper rea absorption. tion. properties have no	spiratory tract. t been thoroughly investigated		
2.2 2.3	Label Elements: GHS Signal Word: GHS Hazard Phrases: Based on evaluation of GHS Precaution Phrase No phrases apply. GHS Response Phrase No phrases apply. GHS Storage and Disp Please refer to Section Adverse Human Health Effects and Symptoms:	None None currently available data this sub ses: for Storage and Section 13 fo Material may be irritating to t May be harmful by inhalatior May cause eye, skin, or resp To the best of our knowledge ction 3. Composition nponents (Chemical Name)/	r Disposal informati the mucous membra n, ingestion, or skin piratory system irrita e, the toxicological p	on. anes and upper rea absorption. tion. properties have no	spiratory tract. t been thoroughly investigated		



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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:	d No 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	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3		r Contain spill and collect, as appropriate.
		ngTransfer 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.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	

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8.2	Exposure Controls:						
8.2.1	Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airb						
	(Ventilation etc.):	evels below recommended exposure limits.					
8.2.2	Personal protection equipr	nent:					
	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					
	١	Wash thoroughly after handling.					
	1	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.					
	Specific Gravity (Water = 1)): No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~0.25 mg/ml in PBS (pH 7.2); ~30 mg/ml in EtOH & DMSO; ~50 mg/ml in DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatu	re: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weigl						

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			Section 10. Stability a	nd Reacti	vity			
10.1	-							
10.2								
10.3 Stability Note(s):			Stable if stored in accordance with information listed on the product insert.					
	Polymer	ization:	Will occur [] Will not occur [X]					
0.4 Conditions To Avoid:			No data available.					
10.5 Incompatibility - Materials strong oxidizing agents To Avoid:								
10.6	Hazardo		carbon dioxide carbon monoxide					
	Byprodu	osition or	carbon monoxide					
	Dyproud		Section 11. Toxicologic	al Inform	ation			
11.1	Informat	ion on	The toxicological effects of this produc			udied		
		gical Effects:		nave not beer	in thoroughly st	uuleu.		
CAS		- i	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
3261			,		n.a.	n.a.	n.a.	
0201	19-42-4	Oleuropein		n.a.	11.a.			
520	19-42-4	Oleuropein	Caption 10 Faclasia				1	
			Section 12. Ecologica					
12.1	Toxicity:		Avoid release into the environment.	Informat	ion		11.0.	
12.1	Toxicity		Avoid release into the environment. Runoff from fire control or dilution wate	Informat	ion			
	Toxicity: Persiste	nce and	Avoid release into the environment.	Informat	ion		11.0.	
12.1 12.2	Toxicity: Persiste Degrada	nce and bility:	Avoid release into the environment. Runoff from fire control or dilution wate No data available.	Informat	ion			
12.1	Toxicity: Persiste Degrada Bioaccu	nce and bility: mulative	Avoid release into the environment. Runoff from fire control or dilution wate	Informat	ion			
12.1 12.2 12.3	Toxicity: Persiste Degrada Bioaccu Potentia	nce and bility: mulative I:	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available.	Informat	ion			
12.1 12.2 12.3 12.4	Toxicity: Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil:	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available.	Informat	ion			
12.1 12.2 12.3	Toxicity: Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available.	Informat	ion			
12.1 12.2 12.3 12.4	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available.	Informat	ion			
12.1 12.2 12.3 12.4 12.5	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB nent:	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available.	Informat	ion			
12.1 12.2 12.3 12.4 12.5	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB nent:	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available.	Informat may cause p	ion ollution.			
12.1 12.2 12.3 12.4 12.5 12.6	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB hent: Iverse effects:	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, state	Informat may cause p may cause p onsiderat	ion ollution. ions egulations.			
12.1 12.2 12.3 12.4 12.5 12.6	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects:	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, state Section 14. Transpor	Informat may cause p may cause p onsiderat	ion ollution. ions egulations.			
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Dispose in accordance with local, state Section 14. Transpor	Informat may cause p may cause p onsiderat	ion ollution. ions egulations.			
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name:	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Dispose in accordance with local, state Section 14. Transpor	Informat may cause p may cause p onsiderat	ion ollution. ions egulations.			
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Dispose in accordance with local, state Section 14. Transpor	Informat may cause p may cause p onsiderat	ion ollution. ions egulations.			
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, state Section 14. Transpor DOT): Not dangerous goods.	Informat may cause p may cause p onsiderat	ion ollution. ions egulations.			
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T	nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, state Section 14. Transpor DOT): Not dangerous goods.	Informat may cause p may cause p onsiderat	ion ollution. ions egulations.			
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1 A	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T	nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, state Section 14. Transpor DOT): Not dangerous goods.	Informat may cause p may cause p onsiderat	ion ollution. ions egulations.			

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Caynan

14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: N

Not dangerous goods.

Additional Transport Information:

Section 15. Regulatory Information

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

CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
32619-42-4	Oleuropein		No	No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA o	r State Lists	•	
32619-42-4	Oleuropein		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Information	on		
Revision Date:		02/15/2017				
Additional Info	ormation About	No data available.				
This Product:						
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.				