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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008						
		Section 1.	Identification of the Substan	ce/Mixture and of t	he Company/Ur	ndertaking
1.1	Product Product Synony	Name:	23155 Cardanol triene 3-(8Z,11Z)-8,11,14-penta	adecatrien-1-yl-pheno	ol;	
1.2	Relevan	t identified uses c	of the substance or mixture a	nd uses advised ag	gainst:	
	Releva	ant identified uses	: For research use only, no	ot for human or veter	inary use.	
1.3	Details					
	Comp	any Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any		
	Web s	ite address:	www.caymanchem.com			
	Inform	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335
1.4	-	ncy telephone nur				
	Emerg	ency Contact:		CHEMTREC Within USA and Canada: +1 (800)424-9300		
			CHEMTREC Outside US		-	3)527-3887
L			Section 2. Haz	zards Identific	cation	
2.1		cation of the Subs	stance or Mixture:			
2.2	Label El	ements:				
		ignal Word:	None			
		lazard Phrases:				
			urrently available data this sub	stance or mixture is r	not classifiable ac	cording to GHS.
		Precaution Phrase rases apply.	S:			
		Response Phrases				
		rases apply.				
	-	Storage and Dispo	sal Phrases:			
			for Storage and Section 13 for	Disposal information	٦.	
2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.					piratory tract.	
Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.						
			May cause eye, skin, or resp	iratory system irritation	on.	
			To the best of our knowledge	, the toxicological pr	operties have not	been thoroughly investigated.
		Sect	tion 3. Composition	/Information of	on Ingredier	nts
	CAS # / Hazardous Com RTECS # REACH Registra		oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification
793 NA	53-39-2	Cardanol triene		100.0 %	NA NA	No data available.



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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:	g A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	IdNo 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	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanir	hgTransfer 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:	

Multi-region format



8.2						
	Exposure Controls:					
8.2.1		Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.				
8.2.2	Eve Protection: Safety glasses					
	-					
		Compatible chemical-resistant gloves				
	Other Protective Clothing: Lab coat					
		H approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan	-				
		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	Information on Basic Physi	cal and Chemical Properties				
	Physical States:	[]Gas [X]Liquid []Solid				
	Appearance and Odor:	A neat oil				
	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:	~0.5 mg/ml in a 1:1 solution of EtOH:PBS (pH 7.2); ~22 mg/ml in EtOH; ~15 mg/ml in DMSO; ~20 mg/ml in DMF;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperatu	No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weig	ht: C21H30O 298.5				

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0.1 0.2 0.3	Describerte		Section 10. Stability a	and Reactiv	vity			
	Reactivit	y:	No data available.					
0.3	Stability:		Unstable [] Stable [X]					
	Stability	Note(s):	Stable if stored in accordance with in	formation listed of	on the product	insert.		
	Polymeri	zation:	Will occur [] Will not occur [X]					
10.4 Conditions To Avoid:			No data available.					
10.5 Incompatibility - Materials			No data available.					
	To Avoid	:						
10.6	Hazardous		No data available.					
	Decomposition or							
	Byprodu	cts:						
			Section 11. Toxicologi	cal Informa	ation			
1.1	Informat	on on	The toxicological effects of this produ	ict have not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS #	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
7935	53-39-2	Cardanol triene		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecologic	al Informat	ion		•	
2.1	Toxicity:		Avoid release into the environment.					
	-		Runoff from fire control or dilution water may cause pollution.					
2.2	Persister	nce and	No data available.					
	Degrada	bility:						
2.3	Bioaccu	nulative	No data available.					
	Potential	:						
2.4	Mobility	in Soil:	No data available.					
2.5	Results of	of PBT and vPvB	No data available.					
	assessm	ent:						
2.6	Other ad	verse effects:	No data available.					
			Section 13. Disposal (Considerat	ions			
		sposal Method:	Dispose in accordance with local, sta					
3.1	Waste Di							
3.1	Waste Di		Section 14. Transpo	ort Informat	ion			
3.1		RANSPORT (US I	Section 14. Transpo	rt Informat	ion			
14.1	LAND TI	RANSPORT (US I	DOT):	rt Informat	ion			
14.1 D(LAND TI	Shipping Name:	DOT):	rt Informat	ion			
14.1 D(LAND TI OT Proper	Shipping Name: I Class:	DOT):	rt Informat	ion			
14.1 D(LAND TI OT Proper OT Hazaro N/NA Num	Shipping Name: I Class:	DOT): Not dangerous goods.	rt Informat	ion			
14.1 D(UI 14.1	LAND TI OT Proper OT Hazaro N/NA Num LAND TI	Shipping Name: I Class: ber:	DOT): Not dangerous goods.	rt Informat	ion			
14.1 D(UI 14.1 AI	LAND TI OT Proper OT Hazaro N/NA Num LAND TI	Shipping Name: I Class: ber: RANSPORT (Euro hipping Name:	DOT): Not dangerous goods. Dpean ADR/RID):	rt Informat	ion			
14.1 D(UI 14.1 AI UI	LAND TI OT Proper OT Hazaro N/NA Num LAND TI DR/RID Sł	Shipping Name: I Class: Iber: RANSPORT (Euro Iipping Name: :	DOT): Not dangerous goods. Dpean ADR/RID):	rt Informat	ion			

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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

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

Not dangerous goods.

Information:

Additional Transport

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
79353-39-2	Cardanol triene		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
79353-39-2	Cardanol triene		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Ot	her Informatio	n			
Revision Date:		09/24/2017					
Additional Info	ormation 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.					