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	acc	cording to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008					
	Section 1.	Identification of the Substance/Mixture and of the	ne Company/Undertaking					
1.1	Product Code: Product Name: Synonyms:	19459 Zearalanone (3S)-3,4,5,6,9,10,11,12-octahydro-14,16-dihyd H)-dione;	roxy-3-methyl-1H-2-benzoxacyclotetradecin-1,7					
1.2	Relevant identified uses o	of the substance or mixture and uses advised aga	ainst:					
	Relevant identified uses	-						
1.3	Details of the Supplier of the Safety Data Sheet:							
	Company Name:	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 nur	nber:						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Section 2. Hazards Identifica	ation					
2.1	Classification of the Substance or Mixture:							
	Acute Toxicity: Inhalation, Category 4							
	Acute Toxicity: Oral, Category 4							
	Acute Toxicity: Skin, Category 4							
	Skin Corrosion/Irritation, Category 2							
	Serious Eye Damage/Eye Irritation, Category 2							
	Carcinogenicity, Category 2							
	Specific Target Organ Toxicity (single exposure), Category 3							
2.2	Label Elements:							
	GHS Signal Word:	Warning						
	GHS Hazard Phrases:							
	H302: Harmful if swallowed.							
	H312: Harmful in contact with skin.							
	H315: Causes skin irritation.							
	H319: Causes serious eye irritation.							
	H332: Harmful if inhaled.							
	H332: Harmful if inhaled. H335: May cause respirat H351: Suspected of caus							



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	GHS F	Precaution Phrase	S:						
P201: Obtain special instructions before use.									
	P202:	Do not handle until	all safety precautions have be	en read and underst	ood.				
P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}.									
	P264:	Wash {hands} thor	oughly after handling.						
P280: Wear {protective gloves/protective clothing/eye protection/face protection}.									
GHS Response Phrases:									
	P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.								
	P302+	-352: IF ON SKIN:	Wash with plenty of soap and v	water.					
	P304+	-340: IF INHALED:	Remove victim to fresh air and	l keep at rest in a pos	sition comfortable	for breathing.			
	P305+	-351+338: IF IN EY	ES: Rinse cautiously with wate	er for several minutes	. Remove contac	t lenses, if present and easy			
	to do.	Continue rinsing.							
	P308+	-313: IF exposed or	concerned: Get medical atten	tion/advice.					
	P312:	Call a POISON CE	NTER or doctor/physician if yo	ou feel unwell.					
	P321:	Specific treatment	{see on this label}.						
	P330:	Rinse mouth.							
	P332+	-313: If skin irritatio	n occurs, get medical advice/a	ttention.					
	P337+	-313: If eye irritatior	n persists, get medical advice/a	attention.					
	P362+	-364: Take off conta	aminated clothing and wash it l	pefore reuse.					
	GHS S	Storage and Dispo	sal Phrases:						
	Please	e refer to Section 7	for Storage and Section 13 for	Disposal information	I.				
2.3	Advers	e Human Health	Causes serious eye irritation.						
		and Symptoms:	Causes skin irritation.						
			Harmful if inhaled, swallowed, or in contact with skin.						
			Material may be irritating to the mucous membranes and upper respiratory tract.						
			May cause respiratory system irritation.						
			Suspected of causing cancer						
			To the best of our knowledge	e, the toxicological pro	operties have not	been thoroughly investigated.			
		Sect	tion 3. Composition	/Information of	on Ingredie	nts			
CAS	#/	Hazardous Com	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification			
RTEC	CS #	REACH Registra	tion No.		EC Index No.				
597	5-78-0	Zearalanone		100.0 %	NA	Acute Tox.(O) 4: H302			
DM25	30000				NA	Acute Tox.(D) 4: H312			
						Skin Corr. 2: H315			
						Eye Damage 2: H319			
						Acute Tox.(I) 4: H332			
						STOT (SE) 3: H335			
						Carcinogen 2: H351			

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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.
		a A solid water stream may be inefficient.
	Media:	
5.2	Flammable Properties an Hazards:	dino data available.
	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
5.5		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.
	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	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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	HEMICAL	Supersedes Revision: 06/19/2016					
8.2	Exposure Controls:						
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	evels below recommended exposure limits.					
8.2.2	Personal protection equipm	nent:					
	Eye Protection: S	Safety glasses					
	Protective Gloves: 0	Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	NOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
	ce Practices: F	Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe					
l	V	Wash thoroughly after handling.					
	Ν	No data available.					
	Sec	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	· · · · ·					
••••	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 r	nm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1)	: No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	Slightly soluble in chloroform;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatur	re: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weigh	nt: C18H24O5 320.4					

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			Section 10. Stability	/ and Reactiv	vity		
10.1	Reactivi	ty:	No data available.				
10.2	-						
0.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.							
	Polymer	ization:	Will occur [] Will not occur [2	X]			
10.4	4 Conditions To Avoid: Reacts with mild steel, galvanized steel/zinc producing hydrogen gas which may form an e mixture with air.					orm an explosiv	
10.5	Incompa	atibility - Materials	strong bases				
	To Avoi	d:	strong oxidizing agents				
10.6	Hazardo		carbon dioxide				
	=	osition or	carbon monoxide				
	Byprodu	icts:					
			Section 11. Toxicolog	gical Informa	ation		
11.1	Informat Toxicolo	tion on ogical Effects:	The toxicological effects of this pro	duct have not beer	n thoroughly st	udied.	
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
597	5-78-0	Zearalanone		n.a.	n.a.	n.a.	n.a.
		•	Section 12. Ecologi	ical Informat	ion	•	.
12.1	Toxicity	-	Avoid release into the environment				
		-	Runoff from fire control or dilution		ollution.		
12.2	Persiste	nce and	No data available.				
	Degrada	bility:					
12.3		mulative	No data available.				
	Potentia	l:					
12.4	Mobility	in Soil:	No data available.				
12.5	Results	of PBT and vPvB	No data available.				
	assessn						
12.6	Other ad	lverse effects:	No data available.				
			Section 13. Disposa	l Considerat	ions		
13.1	Waste D	isposal Method:	Dispose in accordance with local, s	state, and federal re	egulations.		
			Section 14. Transp	oort Informat	ion		
14.1	LAND T	RANSPORT (US	ООТ):				
D	OT Prope	r Shipping Name	Not dangerous goods.				
	OT Hazar						
U	N/NA Nur	nber:					
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):				
Α	DR/RID S	hipping Name:	Not dangerous goods.				
-	N Numbe						
H	azard Cla	SS:					

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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

•: Not dangerous goods.

Additional Transport Information:

Section 15. Regulatory Information

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

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
5975-78-0 Zearalanone			No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists			
5975-78-0 Zearalanone			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. Oth	ner Informatio	n		
Revision Date:		01/05/2017				
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.				