

Revision: 02/16/2019

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		o Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830						
	Section 1. Ide	entification of the Substance/Mixture and of th	e Company/Undertaking					
1.1	Product Code:	26913						
	Product Name:	Territrem B						
	Synonyms:	(4aR,6aR,12aS,12bS)-4a,6,6a,12,12a,12b-hex	ahydro-4a,12a-dihydroxy-4,4,6a,12b-tetrameth					
		9-(3,4,5-trimethoxyphenyl)-4H,11H-naphtho[2,7	1-b]pyrano[3,4-e]pyran-1,11(5H)-dione;					
1.2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses:	For research use only, not for human or veterin	ary use.					
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					
.4	Emergency telephone numb	er:						
	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 Substan							
	Acute Toxicity: Inhalation, Category 2							
	Acute Toxicity: Oral, Category 3							
	Acute Toxicity: Skin, Category 3							
		- /						
2.2	Label Elements:							
2.2	Label Elements:							
2.2	Label Elements:							
2.2	Label Elements:							
2.2								
2.2	GHS Signal Word:	Danger						
2.2	GHS Signal Word: GHS Hazard Phrases:							
2.2	GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed.	Danger						
2.2	GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic in contact with s	Danger						
2.2	GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic in contact with s H330: Fatal if inhaled.	Danger						
2.2	GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic in contact with s H330: Fatal if inhaled. GHS Precaution Phrases:	<b>Danger</b> skin.						
2.2	GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic in contact with s H330: Fatal if inhaled. GHS Precaution Phrases: P260: Do not breathe {dust/	<b>Danger</b> skin. fume/gas/mist/vapors/spray}.						
2.2	GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic in contact with s H330: Fatal if inhaled. GHS Precaution Phrases: P260: Do not breathe {dust/ P264: Wash {hands} thoroug	<b>Danger</b> skin. fume/gas/mist/vapors/spray}. ghly after handling.						
2.2	GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic in contact with s H330: Fatal if inhaled. GHS Precaution Phrases: P260: Do not breathe {dust/ P264: Wash {hands} thoroug P280: Wear {protective glov	Danger skin. fume/gas/mist/vapors/spray}. ghly after handling. es/protective clothing/eye protection/face protectio	on}.					
2.2	GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic in contact with s H330: Fatal if inhaled. GHS Precaution Phrases: P260: Do not breathe {dust/ P264: Wash {hands} thoroug P280: Wear {protective glow P284: Wear respiratory prot	Danger skin. fume/gas/mist/vapors/spray}. ghly after handling. es/protective clothing/eye protection/face protectio	on}.					
2.2	GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic in contact with s H330: Fatal if inhaled. GHS Precaution Phrases: P260: Do not breathe {dust/ P264: Wash {hands} thoroug P280: Wear {protective glov P284: Wear respiratory prot GHS Response Phrases:	Danger skin. fume/gas/mist/vapors/spray}. ghly after handling. es/protective clothing/eye protection/face protection ection {}.						
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2.2	GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic in contact with s H330: Fatal if inhaled. GHS Precaution Phrases: P260: Do not breathe {dust/ P264: Wash {hands} thoroug P280: Wear {protective glov P284: Wear respiratory prot GHS Response Phrases: P301+310: IF SWALLOWED P302+352: IF ON SKIN: Wa P304+340: IF INHALED: Re	Danger skin. fume/gas/mist/vapors/spray}. ghly after handling. es/protective clothing/eye protection/face protection ection {}. D: P310: Immediately call a POISON CENTER or ash with plenty of soap and water. emove victim to fresh air and keep at rest in a posi	doctor/physician.					
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2.2	GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H301: Toxic if swallowed. H311: Toxic in contact with s H330: Fatal if inhaled. GHS Precaution Phrases: P260: Do not breathe {dust/ P264: Wash {hands} thoroug P280: Wear {protective glov P284: Wear respiratory prot GHS Response Phrases: P301+310: IF SWALLOWED P302+352: IF ON SKIN: Wa P304+340: IF INHALED: Re P320: Specific treatment is o P330: Rinse mouth. P361+364: Take off immedia GHS Storage and Disposa	Danger skin. fume/gas/mist/vapors/spray}. ghly after handling. es/protective clothing/eye protection/face protection ection {}. D: P310: Immediately call a POISON CENTER or ash with plenty of soap and water. emove victim to fresh air and keep at rest in a positi urgent {see on this label}. ately all contaminated clothing and wash it before	doctor/physician. tion comfortable for breathing. reuse.					

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2.3 Adverse Human Health Effects and Symptoms:			<ul> <li>Fatal if inhaled.</li> <li>Material may be irritating to the mucous membranes and upper respiratory tract.</li> <li>May cause eye, skin, or respiratory system irritation.</li> <li>Toxic if swallowed or in contact with skin.</li> <li>To the best of our knowledge, the toxicological properties have not been thoroughly investigated.</li> </ul>						
		Sect	tion 3. Composition	/Information	on Ingredie	nts			
	CAS # / RTECS #Hazardous Com REACH Registra70407-20-4 QL6284000Territrem B		oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
				100.0 %	NA NA	Acute Tox.(O) 3: H301 Acute Tox.(D) 3: H311 Acute Tox.(I) 2: H330			
		•	Section 4. Fi	rst Aid Measu	ures				
4.1	Measu	otion of First Aid res: e of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent	0.0	I respiration or gi	ve oxygen by trained personnel.			
		e of Skin Contact: e of Eye 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. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined						
		e of Ingestion:	and tested by medical person Wash out mouth with water p	nel. rovided person is co	onscious. Never g				
			Section 5. Fire	Fighting Mea	asures				
5.1	Media:	e Extinguishing able Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. g A solid water stream may be inefficient.						
5.2		-	<b>d</b> No data available.						
	-	Pt: ive Limits: nition Pt:	No data available. No data. LEL: No data. No data.	UEL: No da	ata.				
5.3	Fire Fiç	ghting Instructions	: As in any fire, wear self-conta equivalent), and full protectiv		-				
						Multi-region format			



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		Section 6. Accidental Release Measures					
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.					
	Protective Equipment and	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 Cleanin	${f g}$ Transfer 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.					
	Sect	ion 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						
8.2	Exposure Controls:						
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	levels below recommended exposure limits.					
8.2.2	Personal protection equip	oment:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing	:Lab coat					
	<b>Respiratory Equipment</b>	NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan	Do not take internally.					
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.					
		Wash thoroughly after handling.					
		No data available.					
	S	ection 9. Physical and Chemical Properties					
9.1	Information on Basic Phys	ical and Chemical Properties					
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A 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 o	mm No data.					
	Hg):						
	Vapor Density (vs. Air = 1	): No data.					
		Multi-region format					

	HEMICAL									
	Specific	Gravity (Water =	1):	No data.						
	Solubility in Water:		No data.							
	Solubilit	y Notes:	Soluble in: DMSO;							
	Octanol/	Water Partition		No data.						
	Coefficie	ent:								
	Autoigni	tion Pt:		No data.						
	Decomp	osition Temperat	ure:	No data.						
	Viscosity	y:		No data.						
9.2	Other Information									
	Percent	Volatile:		No data.						
	Molecula	ar Formula & Weig	ght:	C29H34O9	526.6					
			S	ection 10.	Stability and	Reactiv	ity			
10.1	Reactivit	t <b>y:</b>	No data	a available.						
10.2	Stability	:	Unstab	ole [ ] Stat	ole [ X ]					
10.3	Stability	Note(s):	Stable	if stored in acc	ordance with informa	tion listed or	the product in	sert.		
	Polymer	ization:	Will oc	cur [ ] Wil	I not occur [ X ]					
10.4	Conditio	ns To Avoid:	No data	a available.						
10.5	Incompa	tibility - Materials	strong	oxidizing agent	ts					
	To Avoid	1:								
10.6	Hazardo	us	carbon	dioxide						
	-	osition or	carbon	monoxide						
	Byprodu	icts:								
			Se	ction 11.	Toxicological	Informat	ion			
11.1	Informat	ion on	The to	xicological effe	cts of this product hav	ve not been t	horoughly stud	lied.		
	Toxicolo	gical Effects:	Territre	em B - Toxicity	Data: Intraperitoneal	LD50 (mous	e): 9060 ug/kg	;		
	Chronic	Toxicological	Territrem B - Investigated as a drug. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.							
	Effects:									
			See actual entry in RTECS for complete information. Territrem B RTECS Number: QL6284000							
<b>.</b>										
	nogenicity	i	NTP? No IARC Monographs? No			-	ulated? No	1		
CAS		Hazardous Com	ponents	s (Chemical Na	ame)	NTP	IARC	ACGIH	OSHA	
7040	)7-20-4	Territrem B				n.a.	n.a.	n.a.	n.a.	
			S	ection 12	. Ecological Ir	formatio	on			
12.1	Toxicity:			release into the						
			Runoff	from fire contro	ol or dilution water ma	ay cause pol	lution.			
12.2	Persiste		No data	a available.						
	Degrada	bility:								
12.3	Bioaccu	mulative	No data	a available.						
	Potentia									
12.4	Mobility	in Soil:	No data available.							
12.5	Results	of PBT and vPvB	No dat	No data available.						
	assessm	nent:								
12.6	Other ad	verse effects:	No dat	a available.						
1										

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		Section 13. Dis	posal Consider	ations		
3.1 Waste I	Disposal Method:	Dispose in accordance with	n local, state, and federa	al regulations.		
		Section 14. T	ransport Inform	ation		
14.1 LAND	<b>FRANSPORT (US</b>	DOT):				
DOT Prope	er Shipping Name	: Corrosive solid, basic,	inorganic, n.o.s. (Territr	em B)		
DOT Hazard Class:		8 CORROSIVE				
UN/NA Nu	mber:	UN3262	Packing G	oup:	II	
		CORROSUE 8				
	TRANSPORT (Eur		· · · · · · · · · · · · · · · · · · ·	-		
ADR/RID S UN Numbe	Shipping Name:	Corrosive solid, basic, 3262	inorganic, n.o.s. (Territi		П	
Hazard Cla		3262 8 - CORROSIVE	Packing G	oup.	н	
	ANSPORT (ICAO)					
	Shipping Name:		inorganic, n.o.s. (Territr	em B)		
UN Numbe		3262	Packing G		II	
Hazard Cla	iss:	8 - CORROSIVE IATA Classification: 8				
Additional Tra	nsport	Transport in accordance w	vith local, state, and fede	eral regulations.		
Information:		When sold in quantities of	less than or equal to 1 r	nL, or 1 g, with an I	Excepted Quantity Code of	
		E1, E2, E4, or E5, this iten		-		
		Therefore packaging does	not have to be labeled	as Dangerous Goo	ds/Excepted Quantity.	
		Section 15. Re	gulatory Inform	ation		
EPA SARA (S	uperfund Amendr	nents and Reauthorization	Act of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
70407-20-4	Territrem B		No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	or State Lists		
70407-20-4	Territrem B		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Inf Statement:	ormation	This SDS was prepared in No.1272/2008.	accordance with 29 CF	R 1910.1200 and R	Regulation (EC)	
		Section 16.	Other Informati	on		
Revision Date:		02/16/2019				
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.				
					Multi-region for	