

Revision: 01/17/2016

	Section 1.	Identification of the Substance/Mixture and of the	ne Company/Undertaking					
.1	Product Code: Product Name:	18726 Triticonazole						
	Synonyms:		(1H-1 2 4-triazol-1-v/methyl)-cyclopentapol:					
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 veterinary use.							
	Relevant identified uses	hary 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					
1.4	Emergency telephone nui							
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Section 2. Hazards Identific						
2.1	Classification of the Subs							
<u></u>	Aquatic Toxicity (Chron							
2.2	Label Elements:	ic), Category 2						
	GHS Signal Word: GHS Hazard Phrases: H411: Toxic to aquatic life GHS Precaution Phrase P273: Avoid release to th GHS Response Phrases	<b>s:</b> e environment.						
	P391: Collect spillage.							
	GHS Storage and Disposal Phrases:							
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2.3	Please refer to Section 7 Adverse Human Health	for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane	es and upper respiratory tract.					
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		Sect	tion 3. Composition	/Information	on Ingredie	nts		
CAS RTE		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
1319 NA	83-72-7	Triticonazole		100.0 %	603-543-7 613-282-00-0	Aquatic (C) 2: H411		
			Section 4. Fi	rst Aid Meas	ures			
4.1	Descrip Measur	ption of First Aid						
	In Case	of Inhalation:	Get immediate medical attention.					
	In Case	of Skin Contact:						
	In Case	of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		water for at least 1	5 minutes. Have eyes examined		
	In Case	e of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth t unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do medical personnel.						
			Section 5. Fire	Fighting Me	asures			
5.1	Suitabl Media:	e Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-e		-	spray.		
	Unsuita Media:	Unsuitable Extinguishing A solid water stream may be inefficient. Media:						
5.2		Flammable Properties andNo data available. Hazards:						
			No data available.					
	Flash P		No data.					
	Explos	ive Limits:	LEL: No data.	UEL: No c	lata.			
	-	nition Pt:	No data.					
5.3	Fire Fig	phting Instructions	As in any fire, wear self-conta equivalent), and full protectiv	• • • •	•	· · ·		
			Section 6. Accider	tal Release	Measures			
6.1	Protect	ive Precautions, ive Equipment an ency Procedures:	Avoid raising and breathing d As conditions warrant, wear and appropriate personal pro	a NIOSH approved	self-contained bre	eathing apparatus, or respirator,		
6.2	Enviror Precau	nmental tions:	Take steps to avoid release	into the environme	nt, if safe to do so.			
6.3			r Contain spill and collect, as ngTransfer to a chemical waste		osal in accordance	with local regulations.		



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7.1	Section 7. Handling and Storage Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.								
	in Hand		U U	r repeated exposi					
7.2	Precautions To Be Taken Keep container tightly closed.								
	in Storing: Store in accordance with information listed on the product insert.								
			on 8. Expo	sure Contro	s/Person	al Protection			
8.1	Exposur	e Parameters:							
CAS	CAS # Partial Chemical Name		ame	Britain EH4	0	France VL	Europe		
1319	83-72-7	Triticonazole		No data.		No data.	No data.		
CAS	#	Partial Chemical N	ame	OSHA TWA		ACGIH TWA	Other Limits		
1319	83-72-7	Triticonazole		No data.		No data.	No data.		
8.2	Exposur	e Controls:							
8.2.1	Enginee	ering Controls	Jse process enclo	osures, local exha	ust ventilation,	or other engineering c	ontrols to control airbor		
	(Ventila	tion etc.):	evels below recor	nmended exposu	re limits.				
8.2.2		al protection equipn	nent:						
	Eye Pro	tection:	Safety glasses						
	Protecti	ve Gloves: C	Compatible chemi	cal-resistant glove	es				
	Other P	rotective Clothing:L	ab coat						
	Respira	<b>Respiratory Equipment</b> NIOSH approved respirator, as conditions warrant.							
	(Specify Type):								
	Work/Hygienic/Maintenan Do not take internally.								
	ce Pract		-	lities storing or utilizing this material should be equipped with an eyewash and a safety showe					
				sh thoroughly after handling.					
		Ν	lo data available.	ata available.					
		See	ction 9. Ph	ysical and (	Chemical	Properties			
9.1	Informat	ion on Basic Physic	al and Chemica	I Properties					
	Physica	l States:	[] Gas	[]Liquid []	X ] Solid				
	Appeara	ance and Odor:	A crystallir	ie solid					
	Melting	Ielting Point:							
	Boiling	Point:	No data.						
	Flash Pt	t:	No data.						
	Evapora	ation Rate:	No data.						
		lammability (solid, gas):		No data available.					
	=	Explosive Limits:		LEL: No data. UEL: No data.					
	-	Vapor Pressure (vs. Air or mm							
		Hg):							
	Vapor Density (vs. Air = 1):		No data.						
	-	Specific Gravity (Water = 1):		No data.					
	-			No data. ~0.5 mg/ml in a 1:1 solution of EtOH:PBS (pH 7.2); ~30 mg/ml in EtOH, DMSO, & DMF;					
	Solubili	ty in Water: ty Notes:							

Multi-region format



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Autoighi	tion Pt:	No data.					
Other Info	ormation						
Percent	Volatile:	No data.					
Molecula	r Formula & Wei						
		-	Reactivi	V			
Reactivit	y:	No data available.		<u> </u>			
Stability: Unstable [] Stable [X]   Stability Note(s): Stable if stored in accordance with information listed on the product insert.							
Polymerization: Will occur [ ] Will not occur [ X ]							
Conditions To Avoid: No data available.							
Incompa	tibility - Materials	strong oxidizing agents					
To Avoid	l:						
Hazardo	us	No data available.					
Decomp	osition or						
Byprodu	cts:						
		Section 11. Toxicological	Informati	on			
Informat	ion on	The toxicological effects of this product have	ve not been th	oroughly stud	ied.		
Toxicolo	gical Effects:	Triticonazole - Toxicity Data: Oral TDLO (rat): 1782 mg/kg/90D (continuous);					
Chronic	Toxicological	Triticonazole - Investigated as an agricultu	ral chemical.				
Effects:				inces (RTECS	) data is pre	sented here.	
		•					
		Triticonazole RTECS Number: GY4705000	)				
<i>‡</i>		ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
83-72-7	Triticonazole		n.a.	n.a.	n.a.	n.a.	
			ļ	•			
		Section 12. Ecological Ir	formatio	n	ļ	-	
Toxicity:		Section 12. Ecological Ir Avoid release into the environment.	formatio	n	ł	4	
Toxicity:		•				1	
Toxicity: Persister		Avoid release into the environment.				<u> </u>	
-	nce and	Avoid release into the environment. Runoff from fire control or dilution water ma				-	
Persister Degrada Bioaccur	nce and bility: nulative	Avoid release into the environment. Runoff from fire control or dilution water ma					
Persister Degrada	nce and bility: nulative	Avoid release into the environment. Runoff from fire control or dilution water ma No data available.					
Persister Degrada Bioaccur	nce and bility: nulative :	Avoid release into the environment. Runoff from fire control or dilution water ma No data available.					
Persister Degrada Bioaccur Potential Mobility Results o	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available.					
Persister Degrada Bioaccur Potential Mobility Results assessm	nce and bility: mulative : in Soil: of PBT and vPvB ent:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available. No data available.					
Persister Degrada Bioaccur Potential 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 water ma No data available. No data available. No data available.					
Persister Degrada Bioaccur Potential Mobility Results assessm	nce and bility: mulative : in Soil: of PBT and vPvB ent:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available. No data available.					
Persister Degrada Bioaccur Potential Mobility Results assessm	nce and bility: mulative : in Soil: of PBT and vPvB ent:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available. No data available.					
Persister Degrada Bioaccur Potential Mobility Results assessm	nce and bility: mulative : in Soil: of PBT and vPvB ent:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available. No data available.					
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Persister Degrada Bioaccur Potential Mobility Results assessm	nce and bility: mulative : in Soil: of PBT and vPvB ent:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available. No data available.					
Persister Degrada Bioaccur Potential Mobility Results assessm	nce and bility: mulative : in Soil: of PBT and vPvB ent:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available. No data available.					
Persister Degrada Bioaccur Potential Mobility Results assessm	nce and bility: mulative : in Soil: of PBT and vPvB ent:	Avoid release into the environment. Runoff from fire control or dilution water ma No data available. No data available. No data available. No data available.					
	Molecula Reactivit Stability Stability Polymeri Conditio Incompa To Avoid Hazardon Decompo Byprodu Informati Toxicolo Chronic Effects:	Reactivity:   Stability:   Stability Note(s):   Polymerization:   Conditions To Avoid:   Incompatibility - Materials   To Avoid:   Hazardous   Decomposition or   Byproducts:   Information on   Toxicological Effects:   Chronic Toxicological   Effects:   # Hazardous Composition	Molecular Formula & Weight: C17H20CIN3O 317.8   Section 10. Stability and   Reactivity: No data available.   Stability: Unstable [] Stable [X]   Stability Note(s): Stable if stored in accordance with informat   Polymerization: Will occur [] Will not occur [X]   Conditions To Avoid: No data available.   Incompatibility - Materials strong oxidizing agents   To Avoid: No data available.   Hazardous No data available.   Decomposition or Byproducts:   Stability on the toxicological effects of this product has   Triticonazole - Toxicity Data: Oral TDLO (r   Chronic Toxicological Triticonazole - Investigated as an agricultu   Only select Registry of Toxic Effects of Ch   See actual entry in RTECS for complete in Triticonazole RTECS Number: GY4705000   # Hazardous Components (Chemical Name)	Molecular Formula & Weight: C17H20CIN3O 317.8   Section 10. Stability and Reactivity   Reactivity: No data available.   Stability: Unstable [] Stable [X]   Stability Note(s): Stable if stored in accordance with information listed on a polymerization: Will occur [] Will not occur [X]   Conditions To Avoid: No data available. Incompatibility - Materials strong oxidizing agents To Avoid:   Hazardous No data available. No data available. Information or   Byproducts: Section 11. Toxicological Information   Information on The toxicological effects of this product have not been the Triticonazole - Toxicity Data: Oral TDLO (rat): 1782 mg/A   Chronic Toxicological Triticonazole - Investigated as an agricultural chemical.   Effects: Only select Registry of Toxic Effects of Chemical Substa See actual entry in RTECS for complete information. Triticonazole RTECS Number: GY4705000   # Hazardous Components (Chemical Name) NTP	Molecular Formula & Weight: C17H20CIN3O 317.8   Section 10. Stability and Reactivity   Reactivity: No data available.   Stability: Unstable [] Stable [X]   Stability Note(s): Stable if stored in accordance with information listed on the product inst   Polymerization: Will occur [] Will not occur [X]   Conditions To Avoid: No data available.   Incompatibility - Materials strong oxidizing agents To Avoid:   Hazardous No data available.   Decomposition or Byproducts:   Information on The toxicological effects of this product have not been thoroughly stud   Toxicological Effects: Triticonazole - Toxicity Data: Oral TDLO (rat): 1782 mg/kg/90D (contin   Chronic Toxicological Triticonazole - Investigated as an agricultural chemical.   Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS See actual entry in RTECS for complete information.   Triticonazole RTECS Number: GY4705000 Triticonazole RTECS Number: GY4705000	Molecular Formula & Weight: C17H20CIN3O 317.8   Section 10. Stability and Reactivity   Reactivity: No data available.   Stability: Unstable [] Stable [X]   Stability Note(s): Stable if stored in accordance with information listed on the product insert.   Polymerization: Will occur [] Will not occur [X]   Conditions To Avoid: No data available. Incompatibility - Materials strong oxidizing agents   To Avoid: Hazardous No data available. Incompatibility - Materials   Bection 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied.   Toxicological Effects: Triticonazole - Toxicity Data: Oral TDLO (rat): 1782 mg/kg/90D (continuous);   Chronic Toxicological Triticonazole - Investigated as an agricultural chemical.   Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is pressive actual entry in RTECS for complete information. Triticonazole RTECS Number: GY4705000   # Hazardous Components (Chemical Name) NTP IARC ACGIH	



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		Section 13. Dispos	al Considerat	tions			
13.1 Waste D	)isposal Method:	Dispose in accordance with loca	I, state, and federal	regulations.			
		Section 14. Trans	sport Informa	tion			
	RANSPORT (Eur	opean ADR/RID):					
ADR/RID S UN Numbe Hazard Cla		Not dangerous goods.					
14.2 MARINI	E TRANSPORT (IN	/IDG/IMO):					
IMDG/IMO UN Numbe Hazard Cla		Environmentally hazardous 3077 9 - CLASS 9	substances, solid, n Packing Gro		111		
	S Page:		IMDG MFAG	Number:			
	ANSPORT (ICAO/	IATA):					
ICAO/IATA UN Numbe Hazard Cla							
Additional Tra	nsport	Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.					
		Section 15. Regul	atory Informa	tion			
EPA SARA (Su	perfund Amendm	nents and Reauthorization Act of	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
131983-72-7	Triticonazole		No	No	No		
CAS #		ponents (Chemical Name)	Other US EPA or State Lists				
131983-72-7	Triticonazole		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Oth	er Informatio	n			
Revision Date:		01/17/2016					
Additional Information About This Product:		No data available.					
Company Polic	y or Disclaimer:	DISCLAIMER: This information is currently available to us. However express or implied, with respect use. Users should make their ow their particular purposes.	er, we make no warr to such information,	anty of merchantabilit and we assume no lia	y or any other warranty, ability resulting from its ity of the information for		
					Multi-region forma		