

	Contian 1 Ida	ing to Regulation (EC) No. 1907/2006 as amended by (E						
	Section 1. Ide	entification of the Substance/Mixture and of the	e Company/Undertaking					
.1	Product Code:	23649						
	Product Name:	Thiothixene						
	Synonyms:	N,N-dimethyl-9-[3-(4-methyl-1-piperazinyl)propy	vlidene]-9H-thioxanthene-2-sulfonamide; CF					
		12252-1; NSC 108165; P 4657B; Tiotixene;						
2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses:	For research use only, not for human or veterina	ary use.					
3	Details of the Supplier of the	-						
	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 number							
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
	Classification of the Substan Acute Toxicity: Oral, Categ Carcinogenicity, Category Label Elements:	jory 4	ation					
	Acute Toxicity: Oral, Category Carcinogenicity, Category	nce or Mixture: Jory 4	ition					
	Acute Toxicity: Oral, Category Carcinogenicity, Category	nce or Mixture: Jory 4	ition					
	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements:	ace or Mixture: Jory 4 2	ition					
	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements: GHS Signal Word:	ace or Mixture: Jory 4 2	ition					
	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements: GHS Signal Word: GHS Hazard Phrases:	ace or Mixture: jory 4 2 Warning	ition					
	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H351: Suspected of causing GHS Precaution Phrases:	ace or Mixture: Jory 4 2 Warning cancer.	Ition					
	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H351: Suspected of causing GHS Precaution Phrases: P201: Obtain special instruct	ace or Mixture: Jory 4 2 Warning cancer.						
	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H351: Suspected of causing GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all	ace or Mixture: Jory 4 2 Warning cancer. tions before use. safety precautions have been read and understoo						
	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H351: Suspected of causing GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all P264: Wash {hands} thoroug	ace or Mixture: Jory 4 2 Warning cancer. tions before use. safety precautions have been read and understoor phly after handling.	od.					
	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H351: Suspected of causing GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all P264: Wash {hands} thoroug P280: Wear {protective glove	ace or Mixture: Jory 4 2 Warning cancer. tions before use. safety precautions have been read and understoo	od.					
	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H351: Suspected of causing GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all P264: Wash {hands} thoroug P280: Wear {protective glove GHS Response Phrases:	Acce or Mixture: Jory 4 2 Warning cancer. tions before use. safety precautions have been read and understoo ghly after handling. es/protective clothing/eye protection/face protectio	od. n}.					
	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H351: Suspected of causing GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all P264: Wash {hands} thoroug P280: Wear {protective glove GHS Response Phrases: P301+312: IF SWALLOWED	Acce or Mixture: Jory 4 2 Warning cancer. tions before use. safety precautions have been read and understoor ghly after handling. es/protective clothing/eye protection/face protection D: Call a POISON CENTER or doctor/physician if y	od. n}.					
	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H351: Suspected of causing GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all P264: Wash {hands} thoroug P280: Wear {protective glove GHS Response Phrases: P301+312: IF SWALLOWED P308+313: IF exposed or co	Acce or Mixture: Jory 4 2 Warning cancer. tions before use. safety precautions have been read and understoo ghly after handling. es/protective clothing/eye protection/face protectio	od. n}.					
	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H351: Suspected of causing GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all P264: Wash {hands} thoroug P280: Wear {protective glove GHS Response Phrases: P301+312: IF SWALLOWED P308+313: IF exposed or co P330: Rinse mouth.	Acce or Mixture: Jory 4 2 Warning cancer. tions before use. safety precautions have been read and understood ghly after handling. es/protective clothing/eye protection/face protection b: Call a POISON CENTER or doctor/physician if y ncerned: Get medical attention/advice.	od. n}.					
.1	Acute Toxicity: Oral, Category Carcinogenicity, Category Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H351: Suspected of causing GHS Precaution Phrases: P201: Obtain special instruct P202: Do not handle until all P264: Wash {hands} thoroug P280: Wear {protective glove GHS Response Phrases: P301+312: IF SWALLOWED P308+313: IF exposed or co	Acce or Mixture: Jory 4 2 Warning cancer. tions before use. safety precautions have been read and understood ghly after handling. es/protective clothing/eye protection/face protection b: Call a POISON CENTER or doctor/physician if y ncerned: Get medical attention/advice.	od. n}.					

4	
0	
Cauman	
Caynan	

				nful if swallowed.	e Human Health	Advers				
	Material may be irritating to the mucous membranes and upper respiratory tract.									
	,,			be harmful by inhalation	Effects and Symptoms:					
		on.	•	cause eye, skin, or resp						
				ected of causing cancer						
/ investigated.	t been thoroughly i	operties have no		e best of our knowledge						
, investigated.		-								
	nts	n ingreaie	information o	3. Composition	Sect					
ation	GHS Classificati Acute Tox.(O) 4: I Carcinogen 2: H3	EC No./ EC Index No. 227-001-0 NA	Concentration 100.0 %	ts (Chemical Name)/ o.	Hazardous Comp REACH Registrat	S # / ECS #				
				e, I-1-piperazinyl)propyliden	5591-45-7 Thioxanthene-2-sulf XO1400000 N,N-dimethyl-9-(3-(4 e)-					
	•	res	st Aid Measu	Section 4. Fi	•					
					ption of First Aid	Descri				
					res:	Measu				
Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.						In Cas				
ve contaminate	e of Skin Contact:	In Cas								
eyes examine	In Case of Eye Contact:									
nouth to an	ive anything by mo	nscious. Never g		ested by medical persor a out mouth with water p	e of Ingestion:	In Cas				
nconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by										
				cal personnel.						
		sures	Fighting Mea	Section 5. Fire						
	spray.			alcohol-resistant foam, o	le Extinguishing	Suitab				
	Media:									
Use water spray to cool fire-exposed containers. A solid water stream may be inefficient.						Unsuit				
					Media:					
				ata available	able Properties an					
					-	Hazaro				
				ata available.						
				ata.	Pt:	Flash I				
		ta.	UEL: No da	No data.	ive Limits:	Explos				
				ata.		-				
annroved or	emand (NIOSH an	ratus pressure-c	ined breathing anna			-				
		-		-		The Th				
	)			·····,, ···· ··· ··· ··· ··· ···						
6		-		ata. any fire, wear self-conta /alent), and full protectiv	nition Pt: ghting Instructions	-				



Revision: 02/17/2018

		Section 6. Accidental Release Measures					
6.1	Protective Precautions,	Avoid raising and breathing dust, 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 Cleaning Transfer to a chemical waste container for disposal in accordance with local re							
	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	en Keep container tightly closed.					
	in Storing:	Store in accordance with information listed on the product insert.					
	Secti	on 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.):	evels below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	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.					
	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.					
	Se	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physi	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.					
		Multi-region format					



Revision: 02/17/2018

	Specific	Gravity (Water =	1):	No data.						
	Solubilit	y in Water:	No data.							
	Solubilit	y Notes:	~0.2 mg/ml in DMSO; ~0.5 mg/ml in DMF;							
	Octanol/	Water Partition		No data.						
	Coefficie	ent:								
	Autoigni	tion Pt:		No data.						
	-	osition Temperat	ure:	No data.						
	Viscosity:			No data.						
9.2	Other Inf									
0.2	Percent Volatile: Molecular Formula & Weig			No data.						
				C23H29N3O2S2 443.6						
	Molecula		gin.	02311231130232 443.0						
			S	ection 10. Stability	and Reactiv	/ity				
10.1	Reactivit	ty:	No da	ta available.						
10.2	Stability	:	Unsta	ole [ ] Stable [ X ]						
10.3	Stability	Note(s):	Stable	if stored in accordance with in	formation listed o	n the product	insert.			
	Polymer	ization:	Will o	ccur [ ] Will not occur [ X ]						
10.4	Conditio	ns To Avoid:	No da	lo data available.						
10.5	Incompa	tibility - Materials	strong	oxidizing agents						
	To Avoid	d:								
10.6	Hazardo	us	carbo	carbon dioxide						
	Decomp	osition or	carbon monoxide							
	Byprodu		nitrogen oxides							
			sulfur oxides							
			Se	ection 11. Toxicologi	ical Informa	tion				
11.1	Informat	ion on					udiod			
		gical Effects:	The toxicological effects of this product have not been thoroughly studied. Thiothixene - Toxicity Data: Oral TDLO (woman): 300 ug/kg/2D (intermittent): Oral TDLO (man):							
	TOXICOIO	gical Ellects.	11429 ug/kg; Oral LD50 (rat): 720 mg/kg; Intraperitoneal LD50 (rat): 1680 mg/kg; Subcutaneous							
			LD50 (rat): >2 gm/kg; Oral LD50 (mouse): 400 mg/kg; Intraperitoneal LD50 (rat): 1000 mg/kg; Subcutations							
			Subcutaneous LD50 (mouse): >4 gm/kg;							
	Chronic	Toxicological	Thiothixene - Investigated as a drug and reproductive effector.							
	Effects:	lexicological	Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.							
	Encots.		See actual entry in RTECS for complete information.							
				ixene RTECS Number: XO140						
CAS	<b>#</b>	Hazardous Com	ponent	s (Chemical Name)	NTP	IARC	ACGIH	OSHA		
	1-45-7	Thioxanthene-2-s			n.a.	n.a.	n.a.	n.a.		
	1-40-1			thyl-1-piperazinyl)propylidene)		n.a.	11.0.	11.4.		
		ļ ,	-			 on				
12.1	Toxicity			Section 12. Ecological Information Avoid release into the environment.						
· <u>~</u> · · ·			Runoff from fire control or dilution water may cause pollution.							
12.2	.2 Persistence and N			No data available.						
12.2										
40.0	Degradability:									
12.3 Bioaccumul			No data available.							
	Potentia									
12.4	Mobility in Soil: N			No data available.						
12.5	Results	of PBT and vPvB	No da	ta available.						
							Ν	Iulti-region format		
1								-		



Multi-region format

Revision: 02/17/2018

	assessment: 2.6 Other adverse effects: No data available.							
	Section 13. Disposal Considerations							
13.1 Wa								
	Section 14. Transport Information							
14.1 L/	·							
DOT	-	Shipping Name I Class: ber:	Not dangerous goods.					
14.1 L/	AND TH	RANSPORT (Euro	opean ADR/RID):					
UN N	/RID Sh lumber rd Clas		Not dangerous goods.					
		NSPORT (ICAO/	•					
		Shipping Name:	Not dangerous goods.					
Additiona Informati		sport	Transport in accordance with loc	cal, state, and federa	regulations.			
			Section 15. Regula	atory Informat	tion			
EPA SAR	RA (Suj	perfund Amendm	nents and Reauthorization Act o	of 1986) Lists				
CAS #		Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
5591-45	5591-45-7 Thioxanthene-2-sulfonamide, No No No No ene)-							
CAS #		Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists	·		
5591-45-7 Thioxanthene-2-sul N,N-dimethyl-9-(3-( ene)-			sulfonamide, CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA 3-(4-methyl-1-piperazinyl)propylid 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	er Information	า			
Revision	Date:		02/17/2018					
Additiona This Prod		mation About	No data available.					
Company Policy or Disclaimer:		v 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.					