

SAFETY DATA SHEET DR2313

Revision: 02/17/2017

	Soction 1 1	dentification of the Substance/Mixture and of th	o Company/I Indertaking				
			le company/ondertaking				
1	Product Code:	21181					
	Product Name:	DR2313					
	Synonyms:	3,5,7,8-tetrahydro-2-methyl-4H-thiopyrano[4,3-					
2		f the substance or mixture and uses advised ag					
	Relevant identified uses:	For research use only, not for human or vetering	nary use.				
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 nun	nber:					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
1	Classification of the Subst	anaa ar Mixtura					
	Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 2						
	Sorious Evo Damago/Ev	a Irritation Category 2					
.2		e Irritation, Category 2 oxicity (single exposure), Category 3					
.2	Specific Target Organ To						
.2	Specific Target Organ To						
2	Specific Target Organ To						
2	Specific Target Organ To Label Elements:	oxicity (single exposure), Category 3					
2	Specific Target Organ To Label Elements: GHS Signal Word:	oxicity (single exposure), Category 3 Warning					
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases:	oxicity (single exposure), Category 3 Warning					
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation	warning warning					
.2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye	Warning on. e irritation. ory irritation.					
.2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases	Warning on. e irritation. ory irritation.					
.2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases	warning warning on. e irritation. ory irritation. s: st/fume/gas/mist/vapors/spray}.					
2	Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thoro	warning warning on. e irritation. ory irritation. s: st/fume/gas/mist/vapors/spray}.	on}.				
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	Please	e refer to Section 7	for Storage and Section 13 for	Disposal information	٦.				
2.3	Adverse Human Health		Causes serious eye irritation.						
	Effects and Symptoms:		-						
			Material may be irritating to the mucous membranes and upper respiratory tract.						
			May be harmful by inhalation						
			May cause respiratory syster						
					operties have not	t been thoroughly investigated.			
									
		1	tion 3. Composition	1					
CAS RTEC		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
	28-90-6	DR2313		100.0 %	NA	Skin Corr. 2: H315			
NA					NA	Eye Damage 2A: H319			
						STOT (SE) 3: H335 H336			
			Section 4. Fi	rst Aid Measu	ires				
4.1	Descrip	otion of First Aid							
	Measu	res:							
	In Case	e of Inhalation:	Remove to fresh air. If not bre Get immediate medical attent		respiration or give	ve oxygen by trained personnel.			
	In Coor	of Ekin Contooti			tor for at locat 15	minutes Domove conteminated			
	in case	or Skin Contact:	clothing. Get medical attentio			minutes. Remove contaminated			
		of Eve Contract	-		-				
	In Case	e of Eye Contact:			ater for at least 1	5 minutes. Have eyes examined			
			and tested by medical personnel. Wash out mouth with water provided person is conscious. Never give anything by mouth to an						
	In Case	e of Ingestion:	•	-	-				
				dical attention. Do NG	JT Induce vomitir	ng unless directed to do so by			
			medical personnel.						
				Section 5. Fire Fighting Measures					
5.1		e Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.						
	Media:		Use water spray to cool fire-exposed containers.						
	Unsuitable Extinguishing A solid water stream may be inefficient.								
	Media:								
5.2		•	d No data available.						
	Hazard	5:	Ne dete evellete						
			No data available.						
	Flash F		No data.						
	-	ive Limits:	LEL: No data.	UEL: No da	ta.				
	Autoig	nition Pt:	No data.						
5.3	Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or								
			equivalent), and full protectiv	e gear to prevent cor	ntact with skin an	d eyes.			



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		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 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.			
	Section	on 8. Exposure Controls/Personal Protection			
8.1	Exposure Parameters:				
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 equipr	nent:			
	Eye Protection:	Safety glasses			
	Protective Gloves:	Compatible chemical-resistant gloves			
	Other Protective Clothing:	_ab coat			
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.			
	(Specify Type):				
	Work/Hygienic/Maintenan	Do not take internally.			
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.			
		Nash thoroughly after handling.			
		No data available.			
	Se	ction 9. Physical and Chemical Properties			
9.1	Information on Basic Physic	cal 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 or Ha):	mm No data.			
	Hg): Vapor Density (vs. Air = 1):	No data.			
	Tapor Density (VS. All = 1).	no data.			
		Multi-region format			



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	Specific	Gravity (Water =	1):	No data.					
	Solubility in Water:			No data.					
	Solubility Notes:		Soluble in: DMSO; MeOH; water;						
	Octanol/Water Partition			No data.					
	Coefficie	ent:							
	Autoigni	tion Pt:		No data.					
	Decomp	osition Temperate	ure:	No data.					
	Viscosity	/:		No data.					
9.2	Other Info	ormation							
	Percent	Volatile:		No data.					
	Molecular Formula & Weight:			C8H10N2OS 182.2					
			S	ection 10. S	Stability and	Reactivit	V		
10.1	Reactivit	v:		a available.			J		
10.2	Stability:	-		ble [] Stable	[X]				
10.3	Stability			if stored in accord		tion listed on t	he product ins	sert.	
	Polymeri				ot occur [X]				
10.4	-	ns To Avoid:		t from moisture.					
10.5		tibility - Materials							
10.5	To Avoid	-	strong	Undizing agents					
10.6	Hazardo		carbor	n dioxide					
10.0		osition or		n monoxide					
	Byprodu			en oxides					
	Byprodu	013.							
			Se	ection 11. To	oxicological	Information	on		
11.1	Informat	ion on	The to	xicological effects	of this product hav	ve not been th	oroughly stud	ied.	
	Toxicolo	gical Effects:							
CAS #	¥	Hazardous Com	ponent	s (Chemical Nam	e)	NTP	IARC	ACGIH	OSHA
2840	28-90-6	DR2313				n.a.	n.a.	n.a.	n.a.
			S	Section 12. E	Ecological Ir	formatio	 າ	<u>.</u>	•
12.1	Toxicity:			release into the en	•				
	-		Runof	unoff from fire control or dilution water may cause pollution.					
12.2	Persister	nce and	No da	ta available.					
	Degrada	bility:							
12.3	Bioaccu	nulative	No da	a available.					
	Potential	:							
12.4									
12.5 Results of PBT and vPvB No data available.									
assessment:									
12.6				ta available.					
	12.0 Uther adverse effects: NO 0								

Multi-region format



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Section 13. Disposal Considerations								
3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.								
Section 14. Transport Information								
14.1 LAND T	RANSPORT (US	DOT):						
-	er Shipping Name	: Not dangerous goods.						
DOT Hazard Class:								
UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID):								
	hipping Name:	Not dangerous goods.						
UN Numbe	r:							
Hazard Cla								
	ANSPORT (ICAO/ Shipping Name:	-						
Additional Tra		Transport in accordance with lo	cal state and federa	l regulations				
Information:			, etato, and rodolu					
		Section 15. Regul	atory Informa	tion				
EPA SARA (Sı	perfund Amendn	nents and Reauthorization Act of						
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
284028-90-6	DR2313		No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists				
284028-90-6	DR2313		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulatory Info	ormation	This SDS was prepared in accord	rdance with 29 CFR	1910.1200 and Regu	ation (EC)			
Statement:		No.1272/2008.						
		Section 16. Oth	er Information	n				
Revision Date:		02/17/2017						
		No data available.						
	This Product: Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information							
	y of Discialitier.	currently available to us. However		-				
		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.						
		inen particulai purposes.						