

Product Code: Product Name: Synonyms: Relevant identified uses of the Relevant identified uses:	-	H-thieno[2,3-b]thiopyran-2-sulfonamide < 507; ainst:						
Product Name: Synonyms: Relevant identified uses of the Relevant identified uses: Details of the Supplier of the	Dorzolamide (hydrochloride) (4S,6S)-4-(ethylamino)-5,6-dihydro-6-methyl-44 7,7-dioxide, monohydrochloride; L-671,152; Mł ne substance or mixture and uses advised aga For research use only, not for human or veterin Safety Data Sheet:	< 507; ainst:						
Bynonyms: Relevant identified uses of the Relevant identified uses: Details of the Supplier of the	(4S,6S)-4-(ethylamino)-5,6-dihydro-6-methyl-4 7,7-dioxide, monohydrochloride; L-671,152; Mi ne substance or mixture and uses advised aga For research use only, not for human or veterin Safety Data Sheet:	< 507; ainst:						
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Relevant identified uses: Details of the Supplier of the	For research use only, not for human or veterin Safety Data Sheet:							
	-							
Company Name:		Details of the Supplier of the Safety Data Sheet:						
	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						
Emergency Contact:		+1 (800)424-9300						
	CHEMTREC Outside USA and Canada:	+1 (703)527-3887						
	Section 2. Hazards Identifica	ation						
GHS Signal Word:	Warning							
GHS Signal Word: GHS Hazard Phrases:	Warning							
-	Warning							
GHS Hazard Phrases: H302: Harmful if swallowed.	Warning 9 {kidney, bladder, intestinal tract, bone, blood} th	rough prolonged or repeated exposure.						
GHS Hazard Phrases: H302: Harmful if swallowed.		rough prolonged or repeated exposure.						
GHS Hazard Phrases: H302: Harmful if swallowed. H373: May cause damage to GHS Precaution Phrases:		rough prolonged or repeated exposure.						
GHS Hazard Phrases: H302: Harmful if swallowed. H373: May cause damage to GHS Precaution Phrases:	• {kidney, bladder, intestinal tract, bone, blood} th ume/gas/mist/vapours/spray}.	rough prolonged or repeated exposure.						
GHS Hazard Phrases: H302: Harmful if swallowed. H373: May cause damage to GHS Precaution Phrases: P260: Do not breathe {dust/f	• {kidney, bladder, intestinal tract, bone, blood} th ume/gas/mist/vapours/spray}.	rough prolonged or repeated exposure.						
GHS Hazard Phrases: H302: Harmful if swallowed. H373: May cause damage to GHS Precaution Phrases: P260: Do not breathe {dust/f P264: Wash {hands} thoroug GHS Response Phrases:	• {kidney, bladder, intestinal tract, bone, blood} th ume/gas/mist/vapours/spray}.							
GHS Hazard Phrases: H302: Harmful if swallowed. H373: May cause damage to GHS Precaution Phrases: P260: Do not breathe {dust/f P264: Wash {hands} thoroug GHS Response Phrases:	o {kidney, bladder, intestinal tract, bone, blood} th ume/gas/mist/vapours/spray}. ghly after handling. D: Call a POISON CENTER or doctor/physician if							
GHS Hazard Phrases: H302: Harmful if swallowed. H373: May cause damage to GHS Precaution Phrases: P260: Do not breathe {dust/f P264: Wash {hands} thoroug GHS Response Phrases: P301+312: IF SWALLOWED	o {kidney, bladder, intestinal tract, bone, blood} th ume/gas/mist/vapours/spray}. ghly after handling. D: Call a POISON CENTER or doctor/physician if							
GHS Hazard Phrases: H302: Harmful if swallowed. H373: May cause damage to GHS Precaution Phrases: P260: Do not breathe {dust/f P264: Wash {hands} thoroug GHS Response Phrases: P301+312: IF SWALLOWED P314: Get medical attention/	o {kidney, bladder, intestinal tract, bone, blood} th ume/gas/mist/vapours/spray}. ghly after handling. D: Call a POISON CENTER or doctor/physician if advice if you feel unwell.							
.,	Emergency Contact: Classification of the Substar Acute Toxicity: Oral, Categ	Imergency telephone number: Emergency Contact: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada: Section 2. Hazards Identification Classification of the Substance or Mixture: Acute Toxicity: Oral, Category 4 Specific Target Organ Toxicity (repeated exposure), Category 2						



Revision: 08/16/2019

Multi-region format

2.3	Advers	e Human Health	Harmful if swallowed.					
Effects and Symptoms:				he mucous memb	ranes and upper re	spiratory tract		
	LIIECIS	and Symptoms.	Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation or skin absorption.					
			May be named by initiation of skin absorption. May cause damage to {kidney, bladder, intestinal tract, bone, blood} through prolonged or repeate exposure. May cause eye, skin, or respiratory system irritation.					
			To the best of our knowledge, the toxicological properties have not been thoroughly investigated.					
		Sec	tion 3. Composition	-				
CAS	#/	1	ponents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTE(REACH Registra		Concentration	EC Index No.	GIS Classification		
		Dorzolamide Hydrod		100.0 %	620-304-2	Acute Tox.(O) 4: H302		
	95163				NA	STOT (RE) 2: H373		
			Section 4. Fi	rst Aid Meas	sures	, , , , , , , , , , , , , , , , ,		
.1	Descri	ption of First Aid			54100			
	Measu	-						
	In Case	e of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.					
			Get immediate medical attent	tion.				
	In Case	e of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate					
			clothing. Get medical attentio	clothing. Get medical attention if symptoms occur. Wash clothing before reuse.				
	In Case	e of Eye Contact:	Hold eyelids apart and flush e	eyes with plenty of	water for at least 1	5 minutes. Have eyes examine		
			and tested by medical persor	nnel.				
	In Case	e of Ingestion:	Wash out mouth with water p	rovided person is	conscious. Never g	ive anything by mouth to an		
unconscious person. Get medical attention. Do NOT induce vomiting unless dire				ing unless directed to do so by				
			medical personnel.					
			Section 5. Fire	Fighting Me	easures			
5.1 Suitable Extinguishing Media:		le Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.					
			Use water spray to cool fire-exposed containers.					
	Unsuit	able Extinguishing	g A solid water stream may be	inefficient.				
	Media:							
5.2	Flamm	able Properties an	ndNo data available.					
	Hazard	ls:						
			No data available.					
	Flash I	Pt:	No data.					
	Explos	ive Limits:	LEL: No data.	UEL: No	data.			
	Autoig	nition Pt:	No data.					
5.3	Fire Fig	ghting Instructions	s: As in any fire, wear self-cont	ained breathing ap	paratus pressure-c	demand (NIOSH approved or		
equivalent), and full protective gear to prevent con				contact with skin ar	nd eyes.			



	Ś	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 Precautions:	Take steps to avoid release into the environment, if safe to do so.				
6.3		Contain spill and collect, as appropriate.				
0.0	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	2 Precautions To Be Taken 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 levels below recommended exposure limits.				
	(Ventilation etc.):					
8.2.2	Personal protection equip	ment:				
	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 sl					
		Wash thoroughly after handling.				
		No data available.				
	Se	ection 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				



	0								
	-	Gravity (Water =		No data.					
		y in Water:							
	Solubilit	-	~1 mg/ml in PBS (pH 7.2);						
	Octanol/	Water Partition	No data.	No data.					
	Coefficie	ent:							
	Autoigni	tion Pt:	No data.						
	Decomp	osition Temperat	ure: No data.						
	Viscosit	y:	No data.						
9.2	Other Inf	ormation							
	Percent	Volatile:	No data.						
	Molecular Formula & Weig								
			Section 10. Stability a	and Reacti	vitv				
10.1	Reactivi	tv:	No data available.		Vity				
10.2	Stability	-	Unstable [] Stable [X]						
10.3	Stability			formation listed (on the product	insert			
	-		Will occur [] Will not occur [X]	table if stored in accordance with information listed on the product insert.					
10.4									
10.4		ns To Avoid:	No data available.						
10.5			s strong oxidizing agents						
	To Avoid								
10.6	Hazardo		carbon dioxide						
	-	osition or	carbon monoxide						
	Byprodu	icts:	hydrogen chloride gas						
			nitrogen oxides						
			sulfur oxides						
			Section 11. Toxicologi	cal Informa	ation				
11.1	Informat	ion on	The toxicological effects of this produ	ict have not beer	n thoroughly st	udied.			
Toxicological Effects:		gical Effects:	Dorzolamide (hydrochloride) - Toxicity Data: Oral LD50 (rat): 1927 mg/kg; Subcutaneous LD50 (rat): >2 g/kg; Oral LD50 (mouse): 1320 mg/kg; Subcutaneous LD50 (mouse): >2 g/kg; Dorzolamide (hydrochloride) - Investigated as a drug and reproductive effector.						
	Effects:		Only select Registry of Toxic Effects	ly select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.					
			See actual entry in RTECS for complete information.						
			Dorzolamide (hydrochloride) RTECS	Number: XJ909	5163				
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
1306	93-82-2	Dorzolamide Hyd	rochloride	n.a.	n.a.	n.a.	n.a.		
			Section 12. Ecologic	al Informat	ion				
12.1	Toxicity:		Avoid release into the environment.						
			Runoff from fire control or dilution wa	ter may cause p	ollution.				
12.2	Persiste	nce and	No data available.						
	Degrada	bility:							
12.3			No data available.						
	Potentia								
12.4	Mobility		No data available.						
	-								
12.5			No data available.						
	assessm								
12.6	Other ad	verse effects:	No data available.						
						N	Iulti-region format		



		Section 13. Dispos					
3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.							
Section 14. Transport Information							
14.1 LAND TRANSPORT (US DOT):							
DOT Proper Shipping Name: Not dangerous goods.							
DOT Hazard Class:							
UN/NA Number: 14.1 LAND TRANSPORT (European ADR/RID):							
	-	opean ADR/RID): Not dangerous goods.					
ADR/RID Shipping Name: Not dangerous goods. UN Number:							
Hazard Class:							
14.3 AIR TR	ANSPORT (ICAO/	IATA):					
ICAO/IATA	Shipping Name:	Not dangerous goods.					
Additional Tra	nsport	Transport in accordance with lo	ocal, state, and federa	l regulations.			
Information:							
		Section 15. Regul	latory Informa	tion			
EPA SARA (Sı	perfund Amendm	nents and Reauthorization Act	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
130693-82-2	Dorzolamide Hyd	Irochloride	No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
130693-82-2	Dorzolamide Hyd	Irochloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in acco	ordance with 29 CFR 1910.1200 and Regulation (EC)				
Statement:		No.1272/2008.					
		Section 16. Oth	ner Information	า			
Revision Date:		08/16/2019					
Additional Info	rmation 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 war express or implied, with respect to such information, and we assume no liability resulting fror use. Users should make their own investigations to determine the suitability of the information							
		their particular purposes.	Ū				