

SAFETY DATA SHEET Vorapaxar

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Revision:	10/29/2017
1101131011.	10/25/2011

	accord	antification of the Cuboteners Military and stills	Component ll Indontol d'a t					
	Section 1. Ide	entification of the Substance/Mixture and of the	e Company/Undertaking					
.1	Product Code: Product Name: Synonyms:	23119 Vorapaxar N-[(1R,3aR,4aR,6R,8aR,9S,9aS)-9-[(1E)-2-[5-(3 1-methyl-3-oxonaphtho[2,3-c]furan-6-yl]-carbam						
.2	Relevant identified uses of t	he substance or mixture and uses advised agai	inst:					
	Relevant identified uses:	For research use only, not for human or veterina	ary 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	. 4 (704)074 0005					
	Information:	Cayman Chemical Company	+1 (734)971-3335					
1.4	Emergency telephone numb							
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
·.1	Classification of the Substar	nce or Mixture:						
21	Classification of the Substar	ace or Mixture						
2.1								
2.1	Acute Toxicity: Oral, Categ	gory 4						
2.1	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C	gory 4 Category 1						
2.1 2.2	Acute Toxicity: Oral, Categ	gory 4 Category 1						
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Aquatic Toxicity (Chronic)	gory 4 Category 1						
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Aquatic Toxicity (Chronic)	gory 4 Category 1						
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Aquatic Toxicity (Chronic) Label Elements:	gory 4 Category 1 , Category 1						
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: Of HS Signal Word:	gory 4 Category 1 , Category 1						
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I	gory 4 Category 1 , Category 1 Warning						
	Acute Toxicity: Oral, Catego Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: Official Contemporation GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed.	gory 4 Category 1 , Category 1 Warning						
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I GHS Precaution Phrases:	gory 4 Category 1 , Category 1 Warning ife. ife with long lasting effects.						
	Acute Toxicity: Oral, Catego Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I GHS Precaution Phrases: P264: Wash {hands} thoroug	gory 4 Category 1 , Category 1 Warning ife. ife with long lasting effects. ghly after handling.						
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e	gory 4 Category 1 , Category 1 Warning ife. ife with long lasting effects. ghly after handling.						
	Acute Toxicity: Oral, Catego Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I H410: Very toxic to aquatic I GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e GHS Response Phrases:	gory 4 Category 1 , Category 1 Warning ife. ife with long lasting effects. ghly after handling. environment.						
	Acute Toxicity: Oral, Catego Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e GHS Response Phrases: P301+312: IF SWALLOWED	gory 4 Category 1 , Category 1 Warning ife. ife with long lasting effects. ghly after handling.	ou feel unwell.					
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I H410: Very toxic to aquatic I GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e GHS Response Phrases: P301+312: IF SWALLOWED P330: Rinse mouth.	gory 4 Category 1 , Category 1 Warning ife. ife with long lasting effects. ghly after handling. environment.	ou feel unwell.					
	Acute Toxicity: Oral, Catego Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic H H410: Very toxic to aquatic H H410: Very toxic to aquatic H H410: Very toxic to aquatic H GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e GHS Response Phrases: P301+312: IF SWALLOWED P330: Rinse mouth. P391: Collect spillage.	gory 4 Category 1 , Category 1 Warning ife. ife with long lasting effects. ghly after handling. environment. D: Call a POISON CENTER or doctor/physician if y	ou feel unwell.					
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I H410: Very toxic to aquatic I GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e GHS Response Phrases: P301+312: IF SWALLOWED P330: Rinse mouth. P391: Collect spillage. GHS Storage and Disposa	gory 4 Category 1 , Category 1 Warning ife. ife with long lasting effects. ghly after handling. environment. D: Call a POISON CENTER or doctor/physician if y	ou feel unwell.					

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2.3	Adverse H	luman Health	Harmful if swallowed.							
	Effects an	d Symptoms:	Material may be irritating to the mucous membranes and upper respiratory tract.							
			May be harmful by inhalation or skin absorption.							
			May cause eye, skin, or resp	piratory system irritation	tion.					
			Very toxic to aquatic life with							
			To the best of our knowledg	e, the toxicological p	properties have no	ot been thoroughly investigated.				
		Sec	tion 3. Compositior	/Information	on Ingredie	ents				
CAS	#/ H	azardous Com	ponents (Chemical Name)/	Concentration	EC No./	GHS Classification				
RTEC		EACH Registra			EC Index No.					
61838	85-01-6 Ca	arbamic acid,		100.0 %	612-523-7	Acute Tox.(O) 4: H302				
NA	N-	-[(1R,3aR,4aR,6R	,8aR,9S,9aS)-9-[(1E)-2-[5-(3-fluo		NA	Aquatic (A) 1: H400				
			l]ethenyl]dodecahydro-1-methyl-			Aquatic (C) 1: H410				
	3-	oxonaphtho								
			Section 4. Fi	rst Aid Meas	ures					
l.1	-	on of First Aid								
	Measures	:								
	In Case of	Inhalation:			al respiration or gi	ive oxygen by trained personne				
			Get immediate medical atter	tion.						
	In Case of	Skin Contact:	Immediately wash skin with	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated						
			clothing. Get medical attention	on if symptoms occu	r. Wash clothing b	pefore reuse.				
	In Case of	Eye Contact:	Hold eyelids apart and flush	eyes with plenty of w	water for at least 1	15 minutes. Have eyes examine				
			and tested by medical perso	nnel.						
	In Case of	Ingestion:	Wash out mouth with water p	provided person is co	onscious. Never o	give anything by mouth to an				
		-	-	us person. Get medical attention. Do NOT induce vomiting unless directed to do so by						
			medical personnel.							
			Section 5. Fire	Fighting Me	asures					
5.1	Suitable E	xtinguishing	Use alcohol-resistant foam,	carbon dioxide, wate	er, or dry chemica	l spray.				
	Media:		Use water spray to cool fire-exposed containers.							
		e Extinguishing	A solid water stream may be	inefficient						
	Media:	e _kiiiguleiliig								
5.2 Flammable Properties andNo data available.										
5.2	Hazards:	e i roperties ai								
	112201 43.		No data available.							
	Flash Pt:		No data.							
	Explosive	Limits:	LEL: No data.	UEL: No d	lata.					
	Autoigniti	on Pt:	No data.							
5.3	Fire Fighti	ing Instruction	s: As in any fire, wear self-cont	ained breathing app	aratus pressure-o	demand (NIOSH approved or				
			equivalent), and full protective	e gear to prevent co	ontact with skin ar	nd 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.
	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.):	levels below recommended exposure limits.
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 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.
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	Specific	Gravity (Water =	1):	No data.							
	Solubility	/ in Water:		No data. ~0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2); ~30 mg/ml in DMSO & DMF; No data.							
	Solubility	/ Notes:									
	-	Water Partition									
Coefficient:											
	Autoigni	tion Pt		No data.							
	-	osition Temperat	ure:	No data.							
	Viscosity	-		No data.							
9.2	Other Info			no dala.							
9.2				Na data							
	Percent V			No data.	-						
	Molecula	r Formula & Weig	gnt:	C29H33	FN2O4 492.6						
			S	ection	10. Stability	and	Reacti	vity			
10.1	Reactivit	у:	No dat	a availabl	e.						
10.2	Stability:		Unstat	ole[]	Stable [X]						
10.3	Stability	Note(s):	Stable	if stored i	n accordance with	informa	tion listed o	on the product	insert.		
	Polymeri	zation:	Will oc	cur[]	Will not occur [X	<]					
10.4	Conditio	ns To Avoid:	No dat	ta available.							
10.5	Incompa	tibility - Materials	strona	acids							
	To Avoid	-	strong								
			-	g oxidizing agents							
			strong	reducing	agents						
10.6	Hazardo	JS	No dat	a availabl	e.						
	Decompo	osition or									
	Byprodu										
			50	ction ?	1. Toxicolog	aical	Inform	ation			
						-					
11.1	Informati		The to	xicologica	l effects of this pro	duct hav	e not beer	n thoroughly st	udied.		
		gical Effects:									
CAS	#	Hazardous Com	ponent	s (Chemi	cal Name)		NTP	IARC	ACGIH	OSHA	
6183	85-01-6	Carbamic acid,					n.a.	n.a.	n.a.	n.a.	
				,9S,9aS)-9-[(1E)-2-[5-(3-fluorophen decahydro-1-methyl-3-oxonaphtho							
		yı)-2-pyridinyijetn	enyijaoo	decanydro	o-1-metnyi-3-oxona	apntno					
			S	ection	12. Ecologi	cal In	format	ion			
12.1	Toxicity:		Avoid I	release in	to the environment						
			Runoff	noff from fire control or dilution water may cause pollution.							
12.2	Persister	nce and	No dat	data available.							
	Degrada	bility:									
12.3	Bioaccur	nulative	No dat	a availabl	e.						
	Potential	:									
12.4	Mobility	in Soil:	No dat	a availabl	e.						
12.5	-	of PBT and vPvB									
12.5	assessm			a availab	0.						
12.6			No dot								
12.6	Uther ad	verse effects:	ino dat	a availab	е.						
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		Section 13. Dispos	al Considerat	ions					
13.1 Waste [Disposal Method:	Dispose in accordance with local, state, and federal regulations.							
		Section 14. Trans	sport Informat	ion					
14.1 LAND	RANSPORT (US	DOT):							
DOT Prope	er Shipping Name	Not dangerous goods.							
DOT Haza	rd Class:								
UN/NA Nu	mber:								
	RANSPORT (Eur								
	Shipping Name:	Environmentally hazardous							
UN Numbe Hazard Cla		3077 9 - CLASS 9	Packing Grou	ib:	III				
	ANSPORT (ICAO/ Shipping Name:	•	aubatanaga galid n						
		Environmentally hazardous	Packing Grou		111				
Hazard Cla		9 - CLASS 9	IATA Classifi	-	9				
Additional Tra		Transport in accordance with loc			-				
Information:		When sold in quantities of less the		-	pted Quantity Code of				
		E1, E2, E4, or E5, this item mee	ts the De Minimis Qu	antities exemption, p	per IATA 2.6.10.				
		Therefore packaging does not he	ave to be labeled as	Dangerous Goods/E	xcepted Quantity.				
		Section 15. Regula	atory Informa	tion					
EPA SARA (SI	uperfund Amendm	ents and Reauthorization Act o	of 1986) Lists						
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
618385-01-6	Carbamic acid,		No	No	No				
		SR,8aR,9S,9aS)-9-[(1E)-2-[5-(3-f							
	ethyl-3-oxonapht	rridinyl]ethenyl]dodecahydro-1-m no							
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists						
618385-01-6	Carbamic acid,	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA							
		6R,8aR,9S,9aS)-9-[(1E)-2-[5-(3-f	PROP.65: No						
		ridinyl]ethenyl]dodecahydro-1-m							
	ethyl-3-oxonapht	10							
Regulatory Inf	ormation	This SDS was prepared in accor	dance with 29 CFR	1910.1200 and Regu	lation (EC)				
Statement:		No.1272/2008.							
		Section 16. Oth	er Information	า					
Revision Date:		10/29/2017							
Additional Info	rmation About	No data available.							
This Product:									
Company Polic	cy 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, avarage or implied with represent to such information, and we assume as liability resulting from its							
		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.							
		anon paraodial parposes.							