

Page: 1 of 5

Revision:	12/10/2017

	Section 1. I	dentification of the Substance/Mixture and of the	e Company/Undertaking			
.1	Product Code: 24030 Product Name: Edoxaban (tosylate) Synonyms: N1-(5-chloro-2-pyridinyl)-N2-[(1S,2R,4S)-4-[(dimethylamino)carbonyl]-2-[[(4,5,6,7-tetrahyd methylthiazolo[5,4-c]pyridin-2-yl)carbonyl]amino]cyclohexyl]-4-methylbenzenesulfonate, ethanediamide; DU-176b;					
.2	Relevant identified uses of	f the substance or mixture and uses advised aga	inst:			
	Relevant identified uses:	For research use only, not for human or vetering	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				
	Information:	Cayman Chemical Company	+1 (734)971-3335			
.4	Emergency telephone num					
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887			
		Section 2. Hazards Identifica	ation			
2.1 2.2	Classification of the Subst Acute Toxicity: Oral, Cat Label Elements:	ance or Mixture:				
	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrases P264: Wash {hands} thoro	warning d. S: bughly after handling.				
	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrases P264: Wash {hands} thoro GHS Response Phrases: P301+312: IF SWALLOW	ance or Mixture: aegory 4 Warning d. s: bughly after handling. : ED: Call a POISON CENTER or doctor/physician if y				
	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrases P264: Wash {hands} thoro GHS Response Phrases: P301+312: IF SWALLOW P330: Rinse mouth. GHS Storage and Dispose	ance or Mixture: egory 4 Warning d. s: bughly after handling. ED: Call a POISON CENTER or doctor/physician if y sal Phrases:				
	Acute Toxicity: Oral, Cat Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrases P264: Wash {hands} thoro GHS Response Phrases: P301+312: IF SWALLOW P330: Rinse mouth. GHS Storage and Dispose	ance or Mixture: aegory 4 Warning d. s: bughly after handling. : ED: Call a POISON CENTER or doctor/physician if y				



Revision: 12/10/2017

		360	tion 3. Composition		, č				
CAS # / RTECS #		Hazardous Comp REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
480449-71-6 NA		Edoxaban (tosylate)		100.0 %	NA NA	Acute Tox.(O) 4: H302			
		-	Section 4. Fi	rst Aid Meas	ures				
4.1	Descrip	tion of First Aid							
	Measur	es:							
	In Case	of Inhalation:	Remove to fresh air. If not bre	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.					
			Get immediate medical attent	tion.					
	In Case	of Skin Contact:	Immediately wash skin with s	oap and plenty of w	ater for at least 15	5 minutes. Remove contaminated			
			clothing. Get medical attention if symptoms occur. Wash clothing before reuse.						
	In Case	of Eye Contact:			water for at least 1	5 minutes. Have eyes examined			
			and tested by medical persor						
	In Case	of Ingestion:	Wash out mouth with water p	-	-				
			medical personnel.	uical allention. Do r		ng unless directed to do so by			
			Section 5. Fire						
5.1		e Extinguishing	Use alcohol-resistant foam, o		-	spray.			
	Media:		Use water spray to cool fire-e	-					
		uitable Extinguishing A solid water stream may be inefficient.							
	Media:								
5.2		Flammable Properties andNo data available.							
	Hazard	5.	No data available.						
	Flash P	+ -	No data.						
		ve Limits:	LEL: No data.		ata				
	-	nition Pt:							
5 2	-			ained breathing and	aratus pressure-d	emand (NIOSH approved or			
5.5	5.3 Fire Fighting Instruction		: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.						
			Section 6. Accidental Release Measures						
6.1		ive Precautions,	Avoid raising and breathing	-	-				
						eathing apparatus, or respirator,			
	-	ency Procedures:	and appropriate personal pro	-					
6.2	Enviror		Take steps to avoid release	into the environmer	it, it safe to do so.				
6.2	Precaut		r Contain shill and collect as	appropriato					
6.3		hods and Material For Contain spill and collect, as appropriate. tainment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.							
	Up:								
	- 4.		0						
			Section 7. Handling and Storage						
7.1			n Avoid breathing dust/fume/gas/mist/vapours/spray.						
	in Hand		Avoid prolonged or repeated exposure.						
7.2			n Keep container tightly closed.						
	in Stori	ng:	Store in accordance with info	ormation listed on th	e product insert.				
1	Multi-region format								



Page: 3 of 5

	Secti	ion 8. Exposure Controls/Personal Protection					
3.1	Exposure Parameters:						
3.2	Exposure Controls:	posure Controls:					
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn					
	(Ventilation etc.):	levels below recommended exposure limits.					
3.2.2	Personal protection equipment:						
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	espiratory 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 show					
		Wash thoroughly after handling.					
		No data available.					
	Se	ection 9. Physical and Chemical Properties					
).1		ical 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	mm No data.					
	Hg):						
	Vapor Density (vs. Air = 1)	: No data.					
	Specific Gravity (Water = 1	I): No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	Soluble in: DMSO;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatu	ure: No data.					
	Viscosity:	No data.					
9.2	Other Information						
7. Z	B	No data.					
	Percent Volatile:	No data:					



Revision: 12/10/2017

			Section 10. Stability and	d Reacti	vity			
10.1	No data available.							
10.2	0.2 Stability:		Unstable [] Stable [X]					
10.3	-		Stable if stored in accordance with information listed on the product insert.					
	Polymerization:		Will occur [] Will not occur [X]					
10.4	-		No data available.					
10.5								
	To Avoid	1:						
10.6	10.6 Hazardous		carbon dioxide					
	Decomposition or		carbon monoxide					
	Byprodu	icts:	hydrogen chloride gas					
			nitrogen oxides					
			sulfur oxides					
			Section 11. Toxicologica	l Informa	ation			
11.1	Informat	ion on	The toxicological effects of this product h	ave not beer	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
4804	49-71-6	Edoxaban (tosyla	te)	n.a.	n.a.	n.a.	n.a.	
		•	Section 12. Ecological I	nformat	ion	•	•	
12.1	Toxicity		Avoid release into the environment.	internat				
12.1	TOXICITY.		Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste	nce and	No data available.					
12.2	Degrada							
12.3		mulative	No data available.					
12.5	Potentia							
12.4	Mobility		No data available.					
12.5	-		No data available.					
12.5	assessm							
12.6		verse effects:	No data available.					
<u> </u>			Section 13. Disposal Co					
13.1	Waste D	isposal Method:	Dispose in accordance with local, state, a	and federal r	egulations.			
			Section 14. Transport	Informat	ion			
14.1	LAND T	RANSPORT (US I	оот):					
D	OT Prope	r Shipping Name:	Not dangerous goods.					
D	OT Hazaro	d Class:						
U U	N/NA Nun	nber:						
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):					
A	DR/RID SI	nipping Name:	Not dangerous goods.					
U U	N Number	r:						
н	azard Cla	SS:						
						Ν	/ulti-region format	



14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Transport in accordance with local, state, and federal regulations.

Not dangerous goods.

Information:

Additional Transport

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
480449-71-6	Edoxaban (tosylate)		No	No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA or State Lists			
480449-71-6	Edoxaban (tosylate)		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Inf Statement:	ormation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFR	1910.1200 and Reg	ulation (EC)	
		Section 16. Oth	er Informatio	n		
Revision Date:		12/10/2017				
Additional Information About		No data available.				
This Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howev express or implied, with respect use. Users should make their o their particular purposes.	er, we make no warr to such information,	anty of merchantab and we assume no	lity or any other warranty, liability resulting from its	