

Revision: 07/09/2017

		vording to Regulation (EC) No. 1007/2006 as amended by (	EC) No. 1272/2008				
		cording to Regulation (EC) No. 1907/2006 as amended by (					
	Section 1.	Identification of the Substance/Mixture and of th	e company/undertaking				
1.1	Product Code:	22563					
	Product Name:	Rivaroxaban-d4					
	Synonyms:	5-chloro-N-[[(5S)-2-oxo-3-[4-(3-oxo-4-morpholi	nyl)phenyl-2,3,5,6-d4]-5-oxazolidinyl]methyl]-2-				
		ophenecarboxamide; BAY 59-7939-d4;					
1.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant identified uses	For research use only, not for human or vetering	ary use.				
1.3	Details of the Supplier of the Safety Data Sheet:						
	Company Name:	Cayman Chemical Company					
		1180 E. Ellsworth Rd.					
	Web site address:	Ann Arbor, MI 48108 www.caymanchem.com					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
			11 (104)311 0000				
1.4	Emergency telephone nui Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
	Emergency contact.	CHEMTREC Outside USA and Canada.	+1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
	$\checkmark$						
	GHS Signal Word:	Warning					
	GHS Hazard Phrases:	-					
	GHS Hazard Phrases: H302: Harmful if swallow	ed.					
	GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrase	ed. • <b>s:</b>					
	GHS Hazard Phrases: H302: Harmful if swallow GHS Precaution Phrase P264: Wash {hands} thor	ed. es: oughly after handling.					
	GHS Hazard Phrases: H302: Harmful if swallowd GHS Precaution Phrase P264: Wash {hands} thor GHS Response Phrases	ed. •s: oughly after handling. s:	vou fool upwoll				
	GHS Hazard Phrases: H302: Harmful if swallowd GHS Precaution Phrase P264: Wash {hands} thor GHS Response Phrases	ed. e <b>s:</b> oughly after handling.	you feel unwell.				
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	GHS Hazard Phrases: H302: Harmful if swallow GHS Precaution Phrase P264: Wash {hands} thor GHS Response Phrases P301+312: IF SWALLOW P330: Rinse mouth. GHS Storage and Dispo	ed. • <b>s:</b> oughly after handling. <b>s:</b> /ED: Call a POISON CENTER or doctor/physician if <u>y</u>	you feel unwell.				
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Multi-region format



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		Sect	ion 3. Composition	/Information of	on Ingredie	nts		
CAS RTEC		Hazardous Comp REACH Registrat	oonents (Chemical Name)/ ion No.	Concentration	EC No./ EC Index No.	GHS Classification		
11326 NA	81-38-9	Rivaroxaban-d4		100.0 %	NA NA	Acute Tox.(O) 4: H302		
			Section 4. Fi	rst Aid Measu	ires			
4.1	Descrip	tion of First Aid						
	Measur	es:						
	In Case	of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.					
	In Case	In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes						
			clothing. Get medical attentio	n if symptoms occur.	Wash clothing b	efore reuse.		
	In Case	of Eye Contact:			ater for at least 1	5 minutes. Have eyes examined		
			and tested by medical person					
	In Case	of Ingestion:	Wash out mouth with water p	•	•			
				dical attention. Do No	OT induce vomitir	ng unless directed to do so by		
		medical personnel.						
			Section 5. Fire	Fighting Mea	asures			
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water	, or dry chemical	spray.		
	Media:		Use water spray to cool fire-e	exposed containers.				
	Unsuita	Unsuitable Extinguishing A solid water stream may be inefficient.						
	Media:							
5.2	Flammable Properties andNo data available. Hazards:							
			No data available.					
	Flash P	t:	No data.					
	Explosi	ve Limits:	LEL: No data.	UEL: No da	ta.			
	Autoigr	nition Pt:	No data.					
5.3	Fire Fig	hting Instructions	As in any fire, wear self-conta	ained breathing appa	aratus pressure-de	emand (NIOSH approved or		
			equivalent), and full protectiv	e gear to prevent cor	ntact with skin an	d eyes.		
			Section 6. Acciden	tal Release N	/leasures			
<b>6</b> .1	Protect	ive Precautions,	Avoid raising and breathing			l.		
		-		-	-	athing apparatus, or respirator,		
		ency Procedures:	and appropriate personal pro					
6.2	Enviror	-	Take steps to avoid release	into the environment	, if safe to do so.			
	Precaut	tions:						
6.3	Method	s and Material Fo	Contain spill and collect, as	appropriate.				
		<b>ntainment and Cleaning</b> Transfer to a chemical waste container for disposal in accordance with local regulations.						
	Up:	-						
			Section 7. Har	dling and Sto	orage			
	Drocovi	tions To Po Takan		•	•			
7.1			n Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.					
7.2	in Hand	-						
7.2	in Stori		Keep container tightly closed Store in accordance with info		product insert			
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	Section	8. Exposure Controls/Personal Protection				
3.1	Exposure Parameters:	•				
8.2	Exposure Controls:					
8.2.1	Engineering Controls Use	process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
		Is below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	Eye Protection: Safety glasses					
	Protective Gloves: Con	npatible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	<b>Respiratory Equipment</b> NIOSH approved respirator, as conditions warrant.					
	(Specify Type):					
	Work/Hygienic/Maintenan Dom	not take internally.				
	ce Practices: Fac	lities storing or utilizing this material should be equipped with an eyewash and a safety showe				
	Was	h thoroughly after handling.				
	No	lata available.				
	Section 9. Physical and Chemical Properties					
9.1	Information on Basic Physical	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):	No data.				
	Solubility in Water:	No data.				
	Solubility Notes:	Soluble (slightly) in: MeOH; DMSO;				
	Octanol/Water Partition Coefficient:	No data.				
	Autoignition Pt:	No data.				
	Decomposition Temperature:	No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weight:	C19H14CID4N3O5S 439.9				

# Cayman

### SAFETY DATA SHEET Rivaroxaban-d4

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			Section 10. Stability and	Keacti	/ity			
10.1	10.1 Reactivity: No data available.							
10.2	Stability: Unstable [] Stable [X]							
10.3	Stability Note(s): Stable if stored in accordance with information listed on the product insert.							
	Polymerization: Will occur [ ] Will not occur [ X ]							
10.4	Conditions To Avoid: No data available.							
10.5								
	To Avoid:							
10.6	Hazardo	us	carbon dioxide					
	Decomp	osition or	carbon monoxide					
	Byprodu	icts:	hydrogen chloride					
			nitrogen oxides					
			sulfur oxides					
			Section 11. Toxicological	Informa	ition			
11.1	Informat	ion on	The toxicological effects of this product ha	ve not been	thoroughly st	udied.		
	Toxicolo	gical Effects:	- ·		- •			
CAS	#	- Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
		Rivaroxaban-d4		n.a.	n.a.	n.a.	n.a.	
11020							11.4.	
			Section 12. Ecological I	nformati	on			
12.1	Toxicity	:	Avoid release into the environment.					
			Runoff from fire control or dilution water m	ay cause po	ollution.			
12.2	Persiste	nce and	No data available.					
	Degrada	bility:						
12.3	Bioaccu	mulative	No data available.					
	Potentia	I:						
12.4	Mobility		No data available.					
12.5	-		No data available.					
12.0	assessn							
12.6		lverse effects:	No data available.					
			Section 13. Disposal Cor					
13.1	<b>3.1 Waste Disposal Method:</b> Dispose in accordance with local, state, and federal regulations.							
	Section 14. Transport Information							
14.1	LAND T	RANSPORT (US I	DOT):					
D	OT Prope	r Shipping Name:	Not dangerous goods.					
D	OT Hazar	d Class:						
U U	N/NA Nun	nber:						
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):					
		hipping Name:	Not dangerous goods.					
	N Numbe		5 5					
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14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: N

Not dangerous goods.

Additional Transport Information:

## Section 15. Regulatory Information

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

CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
1132681-38-9	Rivaroxaban-d4		No	No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA or State Lists			
1132681-38-9	Rivaroxaban-d4		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA 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. Ot	her Information	on		
Revision Date:		07/09/2017				
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 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.				