

	Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking
1	Product Code:	9000554	
•	Product Name:	Riociguat	
	Synonyms:	N-[4,6-diamino-2-[1-[(2-fluorophenyl)methyl]-1H	l-pyrazolo[3,4-b]pyridin-3-yl]-5-pyrimidinyl]-1
		hyl-carbamic acid, methyl ester; BAY 63-2521;	
2	Relevant identified uses o	f the substance or mixture and uses advised aga	inst:
	Relevant identified uses	: For research use only, not for human or veterin	ary use.
3	Details of the Supplier of t	he 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			
4	Emergency telephone nur Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
	Emergency Contact.	CHEMTREC Outside USA and Canada.	+1 (703)527-3887
	Classification of the Subs Acute Toxicity: Oral, Ca Label Elements:		ation
	Acute Toxicity: Oral, Ca	tance or Mixture:	ation
	Acute Toxicity: Oral, Ca	tance or Mixture:	ation
	Acute Toxicity: Oral, Ca Label Elements:	tance or Mixture: tegory 4	ation
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word:	tance or Mixture: tegory 4 Warning	ation
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases:	tance or Mixture: tegory 4 Warning	ation
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe	tance or Mixture: tegory 4 Warning ed. s:	ation
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrase	tance or Mixture: tegory 4 Warning ed. s: bughly after handling.	ation
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrases P264: Wash {hands} thore GHS Response Phrases P301+312: IF SWALLOW	tance or Mixture: tegory 4 Warning ed. s: bughly after handling.	
	Acute Toxicity: Oral, Ca Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe GHS Precaution Phrase P264: Wash {hands} thore GHS Response Phrases P301+312: IF SWALLOW P330: Rinse mouth.	tance or Mixture: tegory 4 Warning ed. s: bughly after handling. : /ED: Call a POISON CENTER or doctor/physician if y	
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	Section 3. Composition/Information on Ingredients								
CAS RTE		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
6251 NA	15-55-1	Riociguat			NA NA	Acute Tox.(O) 4: H302			
			Section 4. Fi	rst Aid Measu	ures				
4.1	Descrip	otion of First Aid							
	Measur	es:							
	In Case of Inhalation: In Case of Skin Contact:		Remove to fresh air. If not bre Get immediate medical attent		I respiration or giv	e oxygen by trained personnel.			
			Immediately wash skin with s clothing. Get medical attentio	· · ·		minutes. Remove contaminated			
	In Case	of Eye Contact:	Hold eyelids apart and flush e and tested by medical person		ater for at least 1	5 minutes. Have eyes examined			
	In Case of Inges		Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.						
			Section 5. Fire	Fighting Mea	asures				
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam, o	arbon dioxide, wate	r, or dry chemical	spray.			
	Media:								
		nsuitable Extinguishing A solid water stream may be inefficient.							
5.0	Media:	able Dreventing on							
5.2	Hazard	nable Properties andNo data available.							
			No data available.						
	Flash P	't:	No data.						
	Explos	ive Limits:	LEL: No data. UEL: No data.						
	Autoig	nition Pt:	No data.						
5.3	Fire Fig	phting Instructions	s: 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. Acciden	ital Release I	Measures				
6.1	Protect	ive Precautions,	Avoid raising and breathing	dust, and provide ad	lequate ventilatior	).			
	Protect	ive Equipment an				eathing apparatus, or respirator,			
	Emerge	ncy Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).							
6.2	Enviror Precau	nmental tions:	Take steps to avoid release	into the environmen	t, if safe to do so.				
6.3	Methods and Material For Contain spill and collect, as appropriate.								
	Contair	nment and Cleanir	ngTransfer to a chemical waste	e container for dispo	sal in accordance	with local regulations.			
	Up:								



Revision: 07/09/2016

			Secti	on 7. Han	dling and S	torage			
7.1	Precaut	ions To Be Taken	Avoid breathi	ng dust/fume/ga	s/mist/vapours/sp	ray.			
	in Hand	lling:	Avoid prolonged or repeated exposure.						
7.2	Precaut	Precautions To Be Taken Keep container tightly closed.							
	in Stori	ng:	Store in acco	dance with infor	mation listed on the	he product insert.			
		Secti	on 8. Ex	posure Co	ntrols/Pers	onal Protection			
3.1	Exposu	e Parameters:							
CAS # Par		Partial Chemical Name		Britain	EH40	France VL	Europe		
6251	15-55-1	Riociguat		No data. me OSHA TW	l.	No data.	No data.		
CAS	#	Partial Chemical N	Name		TWA	ACGIH TWA	Other Limits		
6251	15-55-1	Riociguat		No data	l.	No data.	No data.		
3.2	Exposu	re Controls:					ļ		
3.2.1	Enginee	ering Controls	Use process	enclosures, loca	l exhaust ventilation	on, or other engineering o	controls to control airbor		
	(Ventila	tion etc.):	levels below i	ecommended ex	kposure limits.				
3.2.2	Person	al protection equip	ment:						
	Eye Pro	etection:	Safety glasse	S					
	Protect	ive Gloves:	Compatible c	hemical-resistan	t gloves				
	Other P	rotective Clothing:	Lab coat	coat					
	Respira	tory Equipment	NIOSH appro	ved respirator, a	s conditions warra	ant.			
	(Specify Type):								
	Work/Hygienic/Maintenan Do not take internally.								
	ce Prac	tices:	Facilities stor	ities storing or utilizing this material should be equipped with an eyewash and a safety shower					
			Wash thoroug	ghly after handlin	ıg.				
			No data avail	able.					
		Se	ection 9.	Physical a	nd Chemica	al Properties			
9.1	Informat	tion on Basic Physi	ical and Che	nical Properties	6				
	Physica	al States:	[]Ga	as []Liquid	[X] Solid				
	Appear	ance and Odor:	A crys	stalline solid					
	Melting	Point:	No da	ta.					
	Boiling	Boiling Point:		ta.					
	Flash P	t:	No da	ta.					
		aporation Rate:		ta.					
	Evapora								
	Flamma	ability (solid, gas):		ta available.					
	Flamma Explosi	ability (solid, gas): ve Limits:	LEL:	No data.	UE	EL: No data.			
	Flamma Explosi	ability (solid, gas):	LEL:	No data.	UE	EL: No data.			
	Flamma Explosi Vapor F Hg):	ability (solid, gas): ve Limits:	LEL: mm No da	No data. ta.	UE	EL: No data.			
	Flamma Explosi Vapor F Hg): Vapor D	ability (solid, gas): ve Limits: Pressure (vs. Air or	LEL: mm No da : No da	No data. ta. ta.	UE	EL: No data.			
	Flamma Explosi Vapor F Hg): Vapor D Specific	ability (solid, gas): ve Limits: Pressure (vs. Air or Density (vs. Air = 1)	LEL: mm No da : No da	No data. ta. ta. ta.	UE	EL: No data.			

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	Autoigni	tion Pt:	No data.					
9.2	Other Inf	ormation						
	Percent	Volatile:	No data.					
	Molecula	ar Formula & Wei	ght: C20H19FN8O2 422.4					
Section 10. Stability and Reactivity								
10.1								
10.2	Stability	:	Unstable [ ] Stable [ X ]					
10.3	Stability	Note(s):	Stable if stored in accordance	with informa	tion listed on t	he product ins	sert.	
	Polymer	ization:	Will occur [ ] Will not occu	ur [ X ]				
10.4	Conditio	ns To Avoid:	No data available.					
10.5	Incompa	tibility - Materials	s strong oxidizing agents					
	To Avoid	:						
10.6	Hazardo	us	carbon dioxide					
	-	osition or	carbon monoxide					
	Byprodu	icts:	hydrogen fluoride					
			nitrogen oxides					
			Section 11. Toxico	ological	Information	on		
11.1	Informat	ion on	The toxicological effects of this	product hav	ve not been th	oroughly stud	ied.	
	Toxicolo	gical Effects:						
CAS #	ŧ	Hazardous Com	ponents (Chemical Name)		NTP	IARC	ACGIH	OSHA
6251 <sup>-</sup>	15-55-1	Riociguat			n.a.	n.a.	n.a.	n.a.
		•	Section 12. Ecolo	ogical Ir	formation	<u>ו</u>		
12.1	Toxicity:	:	Avoid release into the environn	nent.				
			Runoff from fire control or diluti	ion water ma	ay cause pollu	tion.		
12.2	Persiste	nce and	No data available.					
	Degrada	bility:						
12.3	Bioaccu	mulative	No data available.					
	Potentia	I:						
12.4	Mobility	in Soil:	No data available.					
12.5	Results	of PBT and vPvB	No data available.					
	assessm	nent:						
12.6	Other ad	lverse effects:	No data available.					
Section 13. Disposal Considerations								
13.1	<b>Waste Disposal Method:</b> Dispose in accordance with local, state, and federal regulations.							
1								

# Cayman

## SAFETY DATA SHEET Riociguat

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Section 14. Transport Information							
14.1 LAND TRANSPORT (US DOT):							
DOT Prope DOT Hazard UN/NA Nun		Not dangerous goods.					
14.1 LAND T	RANSPORT (Euro	opean ADR/RID):					
ADR/RID S	hipping Name:	Not dangerous goods.					
UN Number	-						
Hazard Clas							
	ANSPORT (ICAO/I	-					
	Shipping Name:	Not dangerous goods.					
Additional Tran	isport	Transport in accordance with lo	cal, state, and federa	al regulations.			
Information:		Section 15. Regul	atory Informa	ation			
	perfund Amendm	nents and Reauthorization Act of	•				
CAS #	- -	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
625115-55-1	Riociguat		No	No	No		
CAS #		ponents (Chemical Name)	Other US EPA or	State Lists			
625115-55-1	Riociguat	ponents (chemical Name)		: TSCA: No: CA			
			CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in acco	rdance with 29 CFR	1910.1200 and Regul	ation (EC)		
Statement:		No.1272/2008.					
		Section 16. Oth	ner Informatio	n			
Revision Date:		07/09/2016					
Additional Infor	mation About	No data available.					
This Product:							
<b>Company Policy or Disclaimer:</b> 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 warrant 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.							