

Revision: 10/02/2017

		arrin		V (EC) N(). 1777/200	~			
			rding to Regulation (EC) No. 1907/2006 as amended by Ientification of the Substance/Mixture and of					
				une company/or	IUCILANIIY			
1.1	Product Code: 23215							
	Product		Ruxolitinib (phosphate)	vidio 4 vI) 4 L puro	zolo 1 propopositrilo			
	Synony		.beta.R-cyclopentyl-4-(7H-pyrrolo[2,3-d]pyrim monophosphate; INC 424 (phosphate); INCB					
.2	Relevar	elevant identified uses of the substance or mixture and uses advised against:						
	Relevant identified uses: For research use only, not for human or veterinary use.							
1.3		Details of the Supplier of the Safety Data Sheet:						
	Comp	any Name:	Cayman Chemical Company 1180 E. Ellsworth Rd.					
			Ann Arbor, MI 48108					
	Web s	ite address:	www.caymanchem.com					
	Inform	nation:	Cayman Chemical Company	+1 (734	4)971-3335			
.4	Emerge	ncy telephone num		,	,			
	-	jency Contact:	CHEMTREC Within USA and Canada:	+1 (80	0)424-9300			
			CHEMTREC Outside USA and Canada:	+1 (703	3)527-3887			
			Section 2. Hazards Identific	cation				
	<u> </u>	cation of the Substa						
2.1	Classifi	cation of the oubsit	ance or Mixture:					
2.1 2.2		lements:	ance or Mixture:					
	Label E		ance or Mixture: None					
	Label E GHS S	lements:						
	Label E GHS S GHS I	lements: Signal Word: Hazard Phrases:		not classifiable ac	cording to GHS.			
	Label E GHS S GHS I Based	lements: Signal Word: Hazard Phrases:	None rently available data this substance or mixture is	not classifiable ac	cording to GHS.			
	Label E GHS S GHS I Based GHS I	lements: Signal Word: Hazard Phrases: I on evaluation of cur Precaution Phrases:	None rently available data this substance or mixture is	not classifiable ac	cording to GHS.			
	Label E GHS S GHS I Based GHS I No ph	lements: Signal Word: Hazard Phrases: I on evaluation of curr Precaution Phrases: rases apply.	None rently available data this substance or mixture is	not classifiable ac	cording to GHS.			
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2.2	Label E GHS S GHS I Based GHS I No ph GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curr Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Dispos e refer to Section 7 fo e Human Health	None rently available data this substance or mixture is : al Phrases: or Storage and Section 13 for Disposal information	n. nes and upper res	-			
2.2	Label E GHS S GHS I Based GHS I No ph GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curr Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Dispos: e refer to Section 7 for e Human Health and Symptoms:	None rently available data this substance or mixture is al Phrases: or Storage and Section 13 for Disposal information Material may be irritating to the mucous membrar	n. nes and upper res ıbsorption.	-			
2.2	Label E GHS S GHS I Based GHS I No ph GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curr Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Dispose e refer to Section 7 for e Human Health and Symptoms:	None rently available data this substance or mixture is al Phrases: or Storage and Section 13 for Disposal information Material may be irritating to the mucous membrar May be harmful by inhalation, ingestion, or skin a	n. nes and upper res ibsorption. ion.	piratory tract.			
2.2	Label E GHS S GHS I Based GHS I No ph GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curr Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Dispose e refer to Section 7 for e Human Health and Symptoms:	None rently available data this substance or mixture is al Phrases: or Storage and Section 13 for Disposal information Material may be irritating to the mucous membran May be harmful by inhalation, ingestion, or skin a May cause eye, skin, or respiratory system irritati	n. nes and upper res ibsorption. ion. roperties have not	piratory tract. been thoroughly investigated			
2.2	Label E GHS S GHS I Based GHS I No ph GHS S Please Advers Effects	lements: Signal Word: Hazard Phrases: I on evaluation of curr Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Dispose e refer to Section 7 for e Human Health and Symptoms: Sectio	None rently available data this substance or mixture is al Phrases: or Storage and Section 13 for Disposal information Material may be irritating to the mucous membrai May be harmful by inhalation, ingestion, or skin a May cause eye, skin, or respiratory system irritati To the best of our knowledge, the toxicological pr on 3. Composition/Information of ments (Chemical Name)/ Concentration	n. nes and upper res ibsorption. ion. roperties have not	piratory tract. been thoroughly investigated			



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		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	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 of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	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 Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
	Media:	Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing Media:	A solid water stream may be inefficient.
5.2	Flammable Properties ar Hazards:	dNo data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting 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. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	d 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		r Contain spill and collect, as appropriate.
	Up:	hgTransfer to a chemical waste container for disposal in accordance with local regulations.
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taker	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
1		

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	HEMICAL					
8.2	Exposure Controls:					
8.2.1		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	ient:				
	Eye Protection:	Safety glasses				
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	Respiratory Equipment	H approved respirator, as conditions warrant.				
	(Specify Type):					
Work/Hygienic/Maintenan Do not take internally.						
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.				
		Wash thoroughly after handling.				
		data available.				
<u> </u>		ection 9. Physical and Chemical Properties				
9.1	-	ical 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.				
	Specific Gravity (Water = 1): No data.				
	Solubility in Water:	No data.				
	Solubility Notes:	~1 mg/ml in EtOH; ~33 mg/ml in DMSO & DMF;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperatu					
	Viscosity:	No data.				
9.2	Other Information					
0.2	Percent Volatile:	No data.				
	Molecular Formula & Weig					
	Molecular Formula & Weig					

Multi-region format



SAFETY DATA SHEET **Ruxolitinib** (phosphate)

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			Section 10. Stability and	Reactiv	vity				
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.						
	Polymer	ization:	Will occur [] Will not occur [X]						
10.4	Conditio	ns To Avoid:	No data available.						
10.5	Incompa	tibility - Materials	strong oxidizing agents						
	To Avoid	1:							
10.6	Hazardous		carbon dioxide						
	Decomp	osition or	carbon monoxide hydrogen cyanide						
	Byprodu	cts:							
			nitrogen oxides						
			phosphorous oxides						
			Section 11. Toxicological	Informa	ation				
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		
10929	939-17-7		lopentyl-4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl) ropanenitrile phosphate	n.a.	n.a.	n.a.	n.a.		
			Section 12. Ecological Ir	nformati	ion				
12.1	Toxicity:		Avoid release into the environment.						
			Runoff from fire control or dilution water may cause pollution.						
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	ent:							
12.6	Other ad	verse effects:	No data available.						
			Section 13. Disposal Con	siderati	ions				
13.1	Waste D	isposal Method:	Dispose in accordance with local, state, ar						
		•	Section 14. Transport Ir		-				
14.1		RANSPORT (US I	•	liennat					
		r Shipping Name:							
	OT Hazar		Not dangerous goods.						
	N/NA Nun								
14.1		RANSPORT (Euro							
		hipping Name:	Not dangerous goods.						
	IN Number		rior dangerous goods.						
-	lazard Clas								
	Multi-region fo						Iulti-region forma		



14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: N

ne: Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

		eeetteri re: rtegar					
EPA SARA (Su	perfund Amendn	nents and Reauthorization Act of	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
1092939-17-7	1 · · ·	clopentyl-4-(7H-pyrrolo[2,3-d]pyri vrazole-1-propanenitrile	No	No	No		
CAS #	# Hazardous Components (Chemical Name)			Other US EPA or State Lists			
1092939-17-7		clopentyl-4-(7H-pyrrolo[2,3-d]pyri vrazole-1-propanenitrile	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. Oth	er Informatio	on			
Revision Date:		10/02/2017					
Additional Information 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.					