

Revision: 12/09/2018 Supersedes Revision: 02/20/2015

		according to		mended by (EC) No. 2015/8					
			Regulation (EC) No. 1907/2006 as a	-					
	Section	on 1. Ide	ntification of the Substar	nce/Mixture and of	the Company/Ur	ndertaking			
.1	Product Code:		12096						
	Product Name:		Mubritinib						
	Synonyms:		1-[4-[4-[[2-[(1E)-2-[4-(trifluoromethyl)phenyl]ethenyl]-4-oxazolyl]methoxy]phenyl]butyl]-1H-1,2,3 riazole; TAK 165;						
.2	Relevant 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:								
	Company Name:		Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108						
	Web site address:	:	www.caymanchem.com						
	Information:		Cayman Chemical Comp	pany	+1 (734	4)971-3335			
.4	Emergency telepho	ne numbe	er:						
	Emergency Conta	ict:	CHEMTREC Within USA			(800)424-9300			
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887			
			Section 2. Haz	zards Identific	cation				
2.1	Classification of the	e Substan	ce or Mixture:						
2.1 2.2	Label Elements:								
	Label Elements: GHS Signal Word: GHS Hazard Phra Based on evaluatio GHS Precaution F	: Ises: on of curren	ce or Mixture: None ntly available data this sub:	stance or mixture is	not classifiable ac	cording to GHS.			
	Label Elements: GHS Signal Word: GHS Hazard Phra Based on evaluation GHS Precaution P No phrases apply.	: Ises: Ion of curren Phrases:	None	stance or mixture is	not classifiable ac	cording to GHS.			
	Label Elements: GHS Signal Word: GHS Hazard Phra Based on evaluation GHS Precaution F No phrases apply. GHS Response Ph	: Ises: Ion of curren Phrases:	None	stance or mixture is	not classifiable ac	cording to GHS.			
	Label Elements: GHS Signal Word: GHS Hazard Phra Based on evaluation GHS Precaution P No phrases apply. GHS Response Pl No phrases apply.	: ises: on of currer Phrases: hrases:	None ntly available data this sub	stance or mixture is	not classifiable ac	cording to GHS.			
	Label Elements: GHS Signal Word: GHS Hazard Phra Based on evaluation GHS Precaution F No phrases apply. GHS Response Pl No phrases apply. GHS Storage and	: on of curren Phrases: hrases: Disposal	None ntly available data this sub Phrases:			cording to GHS.			
	Label Elements: GHS Signal Word: GHS Hazard Phra Based on evaluation GHS Precaution F No phrases apply. GHS Response Pl No phrases apply. GHS Storage and Please refer to Sec Adverse Human He	: on of curren Phrases: hrases: Disposal ction 7 for S ealth Ma	None ntly available data this sub	Disposal information	n. nes and upper res	-			
2.2	Label Elements: GHS Signal Word: GHS Hazard Phra Based on evaluation GHS Precaution F No phrases apply. GHS Response Pl No phrases apply. GHS Storage and Please refer to Sec	: on of curren Phrases: hrases: Disposal ction 7 for sealth Ma oms: Ma	None ntly available data this sub Phrases: Storage and Section 13 for aterial may be irritating to t	Disposal information he mucous membrar , ingestion, or skin a	n. nes and upper res bsorption.	-			
2.2	Label Elements: GHS Signal Word: GHS Hazard Phra Based on evaluation GHS Precaution F No phrases apply. GHS Response Pl No phrases apply. GHS Storage and Please refer to Sec Adverse Human He	: on of curren Phrases: hrases: Disposal ction 7 for s ealth Ma oms: Ma	None ntly available data this sub- Phrases: Storage and Section 13 for aterial may be irritating to th ay be harmful by inhalation ay cause eye, skin, or resp	Disposal information he mucous membrar , ingestion, or skin a iratory system irritati	n. nes and upper res bsorption. on.	-			
2.2	Label Elements: GHS Signal Word: GHS Hazard Phra Based on evaluatio GHS Precaution F No phrases apply. GHS Response Pl No phrases apply. GHS Storage and Please refer to Sec Adverse Human He Effects and Sympto	: ases: on of current Phrases: hrases: Disposal ction 7 for state ction 7 for stat	None ntly available data this sub- Phrases: Storage and Section 13 for aterial may be irritating to th ay be harmful by inhalation ay cause eye, skin, or resp	Disposal information he mucous membrar , ingestion, or skin a iratory system irritati e, the toxicological pr	n. nes and upper res bsorption. on. roperties have not	piratory tract.			
2.2 2.3	Label Elements: GHS Signal Word: GHS Hazard Phra Based on evaluation GHS Precaution P No phrases apply. GHS Response Pl No phrases apply. GHS Storage and Please refer to Sec Adverse Human He Effects and Sympto	: Ises: Disposal Component Section Component Comp	None ntly available data this sub- Phrases: Storage and Section 13 for aterial may be irritating to the ay be harmful by inhalation ay cause eye, skin, or resp to the best of our knowledge of the best of our knowledge of a. Composition ents (Chemical Name)/	Disposal information he mucous membrar , ingestion, or skin a iratory system irritati e, the toxicological pr	n. nes and upper res bsorption. on. roperties have not	piratory tract.			



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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 an 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	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.					
	-	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 Precautions:	Take steps to avoid release into the environment, if safe to do so.					
6.3	Methods and Material For	Contain spill and collect, as appropriate.					
	Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations. Up:						
	·	Section 7. Handling and Storage					
	Dressutions To Do Tokon						
7.1	in Handling:	Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.					
7.2	-	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:						

Multi-region format



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8.2	•						
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	evels below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	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.						
		cacilities storing or utilizing this material should be equipped with an eyewash and a safety shower					
1	V	Vash thoroughly after handling.					
	١	No data available.					
	So	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	-					
	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 i	nm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1)	: No data.					
	Solubility in Water:	No data. ~5 mg/ml in DMSO & DMF;					
	Solubility Notes:						
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatur	re: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weigh	nt: C25H23F3N4O2 468.5					

Multi-region format



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ay					S	upersedes Revis	sion: 02/20/201		
			Section 10. Stability	and Reactiv	vity				
10.1	Reactiv	ity:	No data available.						
10.2	Stability	/:	Unstable [] Stable [X]						
10.3	Stability	/ Note(s):	Stable if stored in accordance with	information listed c	on the product	insert.			
	Polyme	rization:	Will occur [] Will not occur [>	X]					
10.4	Conditio	ons To Avoid:	No data available.						
10.5	Incomp To Avoi	-	strong oxidizing agents						
10.6	Hazardo		carbon diovide						
		position or	carbon dioxide carbon monoxide						
	Byprod		carbon monoxide hydrogen fluoride						
	Byprou		nitrogen oxides						
			Section 11. Toxicolog	nical Informa	ation				
11.1	Informa	tion on	The toxicological effects of this pro	•		udied.			
		ogical Effects:							
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
3660)17-09-6	Mubritinib		n.a.	n.a.	n.a.	n.a.		
		1	Section 12. Ecologi	ical Informati	ion				
12.1	Toxicity	/:	Avoid release into the environment		_				
			Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	ence and	No data available.						
	Degrada								
12.3	-	umulative	No data available.						
	Potentia								
12.4		in Soil:	No data available.						
12.5	-		No data available.						
12.5	assessi		No dala avaliable.						
12.6		dverse effects:	No data available.						
12.0				. Considerati	000				
13.1	Wasta [Vienacal Mathady	Section 13. Disposal						
13.1 [Waster	Disposal Method:	-		-				
			Section 14. Transp	on mornau	ION				
14.1		RANSPORT (US I	-						
	=	er Shipping Name:	Not dangerous goods.						
	OT Hazaı								
_	N/NA Nu								
14.1		RANSPORT (Euro							
		hipping Name:	Not dangerous goods.						
	N Numbe								
н	lazard Cla	ISS:							

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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

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

Information:

Additional Transport

Section 15. Regulatory Information

010 #			of 1986) Lists	0.004.00			
CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
366017-09-6	Mubritinib		No	No	No		
CAS #	AS # Hazardous Components (Chemical Name)			Other US EPA or State Lists			
366017-09-6	Mubritinib		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Inf	ormation	This SDS was prepared in acco	, rdance with 29 CFR ²	1910.1200 and Regu	lation (EC)		
Statement:		No.1272/2008.					
		Section 16. Oth	er Information	า			
Revision Date:		12/09/2018					
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.					