

Revision: 02/12/2020

a)			Supersedes Revision: 04/27/2016			
	according to	Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83	30 and US OSHA HCS 2015			
	Section 1. Ide	entification of the Substance/Mixture and of th	he Company/Undertaking			
1.1	Product Code: Product Name: Synonyms:	19167 MK-5108 trans-4-(3-chloro-2-fluorophenoxy)-1-[[6-(2-thia xylic acid; VX-689;	azolylamino)-2-pyridinyl]methyl]-cyclohexaneca			
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	nary use.			
1.3	Details of the Supplier of the Company Name:	Safety Data Sheet: 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			
1.4	Emergency telephone numb	er:				
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887			
		Section 2. Hazards Identific	ation			
		Category 2				
2.2	Skin Corrosion/Irritation, C Serious Eye Damage/Eye I	Category 2 rritation, Category 2				
2.2	Skin Corrosion/Irritation, C Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements:	Category 2 rritation, Category 2 icity (single exposure), Category 3				
2.2	Skin Corrosion/Irritation, C Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: GHS Signal Word:	Category 2 rritation, Category 2				
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2	Skin Corrosion/Irritation, C Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed.	Category 2 rritation, Category 2 icity (single exposure), Category 3 Warning				
2	Skin Corrosion/Irritation, C Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H315: Causes skin irritation.	Category 2 rritation, Category 2 icity (single exposure), Category 3 Warning				
2.2	Skin Corrosion/Irritation, C Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H315: Causes skin irritation. H319: Causes serious eye ir	Category 2 rritation, Category 2 icity (single exposure), Category 3 Warning				
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2.2	Skin Corrosion/Irritation, C Serious Eye Damage/Eye I Specific Target Organ Tox Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H315: Causes skin irritation. H319: Causes serious eye ir H335: May cause respiratory GHS Precautionary Phrases P261: Avoid breathing {dust/ P264: Wash {hands} thoroug P280: Wear {protective glove GHS Response Phrases: P301+312: IF SWALLOWED P302+352: IF ON SKIN: Wa P304+340: IF INHALED: Re	Category 2 rritation, Category 2 icity (single exposure), Category 3 Warning ritation. / irritation.	sician if you feel unwell.			
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	D000.	004 T ((
	P362+364: Take off contaminated clothing and wash it before reuse.						
	GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.						
	UFI:						
2.3	Adverse	e Human Health	Causes serious eye irritation.				
	Effects	and Symptoms:	Causes skin irritation.				
			Harmful if swallowed.				
			Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause respiratory system irritation.				
			To the best of our knowledge	, the toxicological pro	operties have not	been thoroughly investigated.	
		Sect	ion 3. Composition	/Information of	on Ingredie	nts	
CAS #	#/	Hazardous Comp	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification	
RTEC	S #	REACH Registrat	tion No.		EC Index No.		
10100	85-13-8	MK-5108		100.0 %	NA	Acute Tox.(O) 4: H302	
NA					NA	Skin Corr. 2: H315	
						Eye Damage 2A: H319	
						STOT (SE) 3: H335 H336	
			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 bre	eathing, give artificial	respiration or giv	e oxygen by trained personnel.	
			Get immediate medical attent	ion.			
In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove co							
clothing. Get medical attention if symptoms occur. Wash clothing before r In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minu and tested by medical personnel.			-				
			5 minutes. Have eyes examined				
	In Case of Ingestion:		Wash out mouth with water provided person is conscious. Never give anything by mouth to an				
		3	unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by				
			medical personnel.				
			Section 5. Fire	Fighting Mea	isures		
5.1	Suitable	Extinguishing	Use alcohol-resistant foam, c			spray.	
	Media:		Use water spray to cool fire-e	exposed containers.			
	Unsuita	Insuitable Extinguishing A solid water stream may be inefficient.					
	Media:						
5.2	Flammable Properties and No data available.						
	Hazards:						
			No data available.				
	Flash P	t:	No data.				
	Explosi	ve Limits:	LEL: No data.	UEL: No da	ta.		
	-	ition Pt:	No data.				
5.3	-			ained breathing appa	ratus pressure de	emand (NIOSH approved or	
5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH ap equivalent), and full protective gear to prevent contact with skin and eyes.							

Multi-region format



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		Section 6. Accidental Release Measures			
6.1 6.2	Protective Equipment and Emergency Procedures:	 Precautions, Avoid raising and breathing dust, and provide adequate ventilation. Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). 			
0.2	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 Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations. Up:				
		Section 7. Handling and Storage			
7.1	7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.			
7.2	Keep container tightly closed.				
	in Storing: Store in accordance with information listed on the product insert.				
	Secti	on 8. Exposure Controls/Personal Protection			
8.1	Exposure Parameters:				
8.2	Exposure Controls:				
8.2.1		Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.			
8.2.2	Personal protection equip	ment:			
		Safety glasses			
	-	Compatible chemical-resistant gloves			
	Other Protective Clothing:Lab coat				
	Respiratory Equipment NIOSH 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.			
		No data available.			
	Se	ction 9. Physical and Chemical Properties			
9.1		cal 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.			
	vapor Density (vs. All = 1)				
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No data.					
No data. ~0.025 mg/ml in a 1:30 solution of DMF:PBS (pH 7.2); ~2 mg/ml in DMSO; ~5 mg/ml in					
					DMF;
No data.					
C22H21CIFN3O3S 461.9					
Molecular Formula & Weight: C22H21CIFN3O3S 461.9 Section 10. Stability and Reactivity					
arbon monoxide /drogen chloride					
rogen fluoride gen oxides					
roxides					
CGIH	OSHA				
a.	OSHA n.a.				



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Section 13. Disposal Considerations							
3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.							
Section 14. Transport Information							
14.1 LAND T	RANSPORT (US	DOT):					
DOT Prope	r Shipping Name	Not dangerous goods.					
DOT Hazaro	d Class:						
UN/NA Num	nber:						
	14.1 LAND TRANSPORT (European ADR/RID):						
	nipping Name:	Not dangerous goods.					
UN Number Hazard Clas							
	NSPORT (ICAO/	ΙΔΤΔ)·					
	Shipping Name:	Not dangerous goods.					
UN Number			Packing Grou	ıp:			
Hazard Clas	SS:		-	-			
Additional Trai	nsport	Transport in accordance with lo	cal, state, and federa	l regulations.			
Information:							
		Section 15. Regul	atory Information	tion			
EPA SARA (Su	perfund Amendr	nents and Reauthorization Act o	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
1010085-13-8	MK-5108		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists			
1010085-13-8	1010085-13-8 MK-5108 CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				; TSCA: No; CA		
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)					
Statement:		No.1272/2008.					
		Section 16. Oth	er Information	า			
Revision Date:		02/12/2020					
Additional Info	rmation About	No data available.					
This Product:							
Company Polic	y 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.					