



### SAFETY DATA SHEET MK-5108

Revision: 04/27/2016

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

**1.1 Product Code:** 19167 **Product Name:** MK-5108

Synonyms: trans-4-(3-chloro-2-fluorophenoxy)-1-[[6-(2-thiazolylamino)-2-pyridinyl]methyl]-cyclohexanecarbo

xylic acid; VX-689;

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 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 Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

#### Section 2. Hazards Identification

#### 2.1 Classification of the Substance or Mixture:

2.2 Label Elements:

GHS Signal Word: None

**GHS Hazard Phrases:** 

Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.

**GHS Precaution Phrases:** 

No phrases apply.

**GHS** Response Phrases:

No phrases apply.

**GHS Storage and Disposal Phrases:** 

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.

**Effects and Symptoms:** May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

## Section 3. Composition/Information on Ingredients

	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
1010085-13-8 NA	MK-5108	100.0 %	NA NA	No data available.





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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 A solid water stream may be inefficient.

Media:

**5.2** Flammable Properties and No data available.

Hazards:

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.

Protective Equipment and 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 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 Precautions To Be Taken** Avoid breathing dust/fume/gas/mist/vapours/spray.

in Handling: Avoid prolonged or repeated exposure.

**7.2** Precautions To Be Taken Keep container tightly closed.

in Storing: Store in accordance with information listed on the product insert.

## Section 8. Exposure Controls/Personal Protection

#### 8.1 Exposure Parameters:

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
1010085-13-8	MK-5108	No data.	No data.	No data.

Multi-region format



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ay	man			MK-5108		Revision: 04/27/2016			
CAS	#	Partial Chemical Na	me	OSHA TWA	ACGIH TWA	Other Limits			
010	085-13-8	MK-5108		No data.	No data.	No data.			
.2	Exposu	re Controls:			<u>'</u>				
2.1	Engine	ering Controls Us	se process enclos	sures, local exhaust ver	ntilation, or other engineering o	controls to control airbor			
	(Ventila	tion etc.): le	vels below recom	mended exposure limit	S.				
.2.2	Person	al protection equipm	ent:						
	Eye Protection: Safety glas		afety glasses	glasses					
	Protecti	ive Gloves: Co	ompatible chemic	al-resistant gloves					
	Other Protective Clothing:Lab coat								
	Respira	tory Equipment N	OSH approved re	espirator, as conditions	warrant.				
	(Specify	/ Type):							
	Work/Hygienic/Maintenan Do not take internally.								
	ce Prac	tices: Fa	acilities storing or	utilizing this material sh	nould be equipped with an eye	wash and a safety shov			
		W	ash thoroughly a	fter handling.					
		Ne	o data available.						
		Sec	tion 9. Phy	sical and Cher	nical Properties				
.1	Informat	tion on Basic Physica	al and Chemical	Properties	·				
Physical States: [ ] Gas [ ] Liquid [ X ] Solid									
	Appeara	ance and Odor:	A crystalline	e solid					
	Melting	Point:	No data.						
	Boiling	Point:	No data.						
	Flash P	t:	No data.						
	Evapora	ation Rate:	No data.						
	Flamma	ability (solid, gas):	No data ava	ailable.					
	Explosi	ve Limits:	LEL: No da	ata.	UEL: No data.				
	Vapor P	Pressure (vs. Air or m	m No data.						
	Hg):								
	Vapor D	Density (vs. Air = 1):	No data.						
	Specific	Gravity (Water = 1):	No data.						
	Solubili	ty in Water:	No data.						
	Solubili	ty Notes:	~0.025 mg/	ml in a 1:30 solution of	DMF:PBS (pH 7.2); ~2 mg/ml i	in DMSO; ~5 mg/ml in			
			DMF;						
	Autoign	nition Pt:	No data.						
.2	Other In	formation							
	Percent	: Volatile:	No data.						
		lar Formula & Weight		N3O3S 461.9					
				0. Stability and	Reactivity				
0.1	Reactiv	ity. N	o data available.	o. Clasinty and	- Caoning				
0.1	Stability	•	o uata avaliable. nstable [ ] S	table [V]					

10.2 Stability: Unstable [ ] Stable [ X ]

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Will not occur [ X ] Polymerization: Will occur [ ]

protexct from heat and light 10.4 **Conditions To Avoid:** 10.5

Incompatibility - Materials strong oxidizing agents

To Avoid:

10.6 carbon dioxide Hazardous





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Decomposition or

carbon monoxide

**Byproducts:** 

hydrogen chloride nitrogen oxides

## Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

**Toxicological Effects:** 

CAS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
1010085-13-8	MK-5108	n.a.	n.a.	n.a.	n.a.

## Section 12. Ecological Information

12.1 Toxicity:

12.3

Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and No data available.

Degradability:

**Bioaccumulative** 

Potential:

12.4 **Mobility in Soil:**  No data available.

No data available.

12.5 Results of PBT and vPvB No data available.

assessment:

12.6 Other adverse effects: No data available.

#### Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

## Section 14. Transport Information

#### 14.1 LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** 

Not dangerous goods.

**DOT Hazard Class: UN/NA Number:** 

#### LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name:

Not dangerous goods.

**UN Number: Hazard Class:** 

#### 14.3 **AIR TRANSPORT (ICAO/IATA):**

ICAO/IATA Shipping Name:

Not dangerous goods.

**Additional Transport** 

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

Information:

## Section 15. Regulatory Information

#### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
1010085-13-8	MK-5108	No	No	No	
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists			
1010085-13-8	MK-5108	CAA HAP ODC: No: CWA NPDES: No: TSCA: No: CA			

PROP.65: No



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Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

**Statement:** No.1272/2008.

Section 16. Other Information

**Revision Date:** 04/27/2016

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.