

### SAFETY DATA SHEET **MN-001**

					the company	y/ Undertaking	
.1	Section 1. Identification of the Substance/Mixture and of the Company/Undertaking         Product Code:       11948         Product Name:       MN-001         Synonyms:       4-[6-acetyl-3-[3-[(4-acetyl-3-hydroxy-2-propylphenyl)thio]propoxy]-2-propylphenoxy]-butar acid; KCA 757; Tipelukast;						
.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.							
.3	Details of the Supplier of the Safety Data Sheet:						
	Company Name: Cayman Chemical Con 1180 E. Ellsworth Rd. Ann Arbor, MI 48108			bany			
		site address:	www.caymanchem.com				
		nation:	Cayman Chemical Comp	bany	+1	(734)971-3335	
.4	0,		er: CHEMTREC Within USA			(800)424-9300 (703)527-3887	
			CHEMTREC Outside US	and Canada.	- T I	(103)521-3001	
2.1 2.2	Label E GHS S GHS	ication of the Substan Elements: Signal Word: Hazard Phrases:	Section 2. Has nce or Mixture: None	zards Identifi	cation		
2	Label E GHS S GHS B Based GHS B No ph GHS S Pleas Advers	Elements: Signal Word: Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply. Response Phrases: mases apply. Storage and Disposa e refer to Section 7 for se Human Health s and Symptoms: M	Section 2. Ha: nce or Mixture: None ently available data this sub I Phrases: Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	zards Identifi stance or mixture is Disposal information he mucous membra h, ingestion, or skin a biratory system irritat	cation not classifiabl on. ines and upper absorption.	e according to GHS.	
2	Label E GHS S GHS B Based GHS B No ph GHS S Pleas Advers	Elements: Signal Word: Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply. Response Phrases: mases apply. Storage and Disposa e refer to Section 7 for se Human Health and Symptoms: M T	Section 2. Ha: nce or Mixture: None ently available data this sub I Phrases: Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	zards Identifi stance or mixture is Disposal information he mucous membra h, ingestion, or skin a hiratory system irritat e, the toxicological p	cation not classifiabl on. nes and upper absorption. rion. roperties have	e according to GHS. r respiratory tract.	
2.2 2.3	Label E GHS S GHS B Based GHS B No ph GHS S Pleas Advers Effects	Elements: Signal Word: Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply. Response Phrases: mases apply. Storage and Disposa e refer to Section 7 for se Human Health and Symptoms: M Section	Section 2. Ha: nce or Mixture: None ently available data this sub I Phrases: Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp to the best of our knowledge on 3. Composition ments (Chemical Name)/	zards Identifi stance or mixture is Disposal information he mucous membra h, ingestion, or skin a hiratory system irritat e, the toxicological p	cation not classifiabl on. nes and upper absorption. rion. roperties have	e according to GHS. r respiratory tract. e not been thoroughly investigated dients GHS Classification	



Multi-region format

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Case of Skin Contact: Case of Eye Contact: Case of Ingestion: itable Extinguishing edia: nsuitable Extinguishing edia: ammable Properties and azards: ash Pt: splosive Limits: itoignition Pt:	No data available. No data. LEL: No data. UEL: No data. No data. : As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or			
Case of Inhalation: Case of Skin Contact: Case of Eye Contact: Case of Ingestion: uitable Extinguishing edia: nsuitable Extinguishing edia: ammable Properties and azards: ash Pt: plosive Limits: utoignition Pt:	Get immediate medical attention. 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. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel. 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 Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. A solid water stream may be inefficient. dNo data available. No data available. No data. LEL: No data. LEL: No data. Ko data.			
Case of Skin Contact: Case of Eye Contact: Case of Ingestion: itable Extinguishing edia: nsuitable Extinguishing edia: ammable Properties and azards: ash Pt: splosive Limits: itoignition Pt:	Get immediate medical attention. 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. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel. 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 Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. A solid water stream may be inefficient. dNo data available. No data available. No data. LEL: No data. LEL: No data. Ko data.			
Case of Eye Contact: Case of Ingestion: itable Extinguishing edia: nsuitable Extinguishing edia: ammable Properties and azards: ash Pt: splosive Limits: itoignition Pt:	clothing. Get medical attention if symptoms occur. Wash clothing before reuse. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel. 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 Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. A solid water stream may be inefficient. dNo data available. No data available. No data. LEL: No data. UEL: No data. Set of the set			
Case of Ingestion: itable Extinguishing edia: nsuitable Extinguishing edia: ammable Properties and azards: ash Pt: splosive Limits: itoignition Pt:	and tested by medical personnel. 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 Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. A solid water stream may be inefficient. dNo data available. No data available. No data. LEL: No data. LEL: No data. VEL: No data. As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or			
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itoignition Pt:	No data. : As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or			
-	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or			
re Fighting Instructions				
	equivalent), and full protective gear to prevent contact with skin and eyes.			
	Section 6. Accidental Release Measures			
otective Precautions, otective Equipment and nergency Procedures:	Avoid raising and breathing dust, and provide adequate ventilation. 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).			
ivironmental ecautions:	Take steps to avoid release into the environment, if safe to do so.			
	Contain spill and collect, as appropriate.			
<b>Containment and Cleaning</b> Transfer to a chemical waste container for disposal in accordance with local regulations.				
):	<b>y</b> , , , , , , , , , , , , , , , , , , ,			
	Section 7. Handling and Storage			
	Avoid breathing dust/fume/gas/mist/vapours/spray.			
Handling:	Avoid prolonged or repeated exposure.			
	Keep container tightly closed.			
Storing:	Store in accordance with information listed on the product insert.			
her Precautions:	hygroscopic			
	thods and Material For ntainment and Cleanin cautions To Be Taken Handling: cautions To Be Taken Storing:			



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	Sectio	on 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.):	levels below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	Eye Protection: S	y glasses				
	Protective Gloves: C	Compatible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	Respiratory Equipment N (Specify Type):	IIOSH approved respirator, as conditions warrant.				
	Work/Hygienic/Maintenan	Do not take internally.				
	ce Practices: F	acilities storing or utilizing this material should be equipped with an eyewash and a safety shower				
	V	Vash thoroughly after handling.				
	Ν	lo data available.				
	Sec	ction 9. Physical and Chemical Properties				
9.1	Information on Basic Physic	al and Chemical Properties				
	Physical States:	[]Gas []Liquid [X]Solid				
	Appearance and Odor:	A 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 n Hg):	nm No data.				
	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;				
	<b>Octanol/Water Partition</b>	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperatur	e: No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weigh	t: C29H38O7S 530.7				

Multi-region format



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Multi-region format

				nd Reacti	-				
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	· · ·								
To Avoid:									
10.6	Hazardo		No data available.						
	=	osition or							
	Byprodu	cts:	_						
			Section 11. Toxicologic	al Inform	ation				
11.1	Informat	ion on	The toxicological effects of this produc	have not bee	n thoroughly st	udied.			
	Toxicolo	gical Effects:							
CAS #	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
12596		1	pollents (ollenneal Name)						
12000	61-82-2	MN-001	ponents (onenical Name)	n.a.	n.a.	n.a.	n.a.		
12000	61-82-2		Section 12. Ecologica	n.a.		n.a.	n.a.		
12.1	61-82-2 Toxicity:	MN-001		n.a.		n.a.	n.a.		
		MN-001	Section 12. Ecologica	n.a.	tion	n.a.	n.a.		
		MN-001	Section 12. Ecologica Avoid release into the environment.	n.a.	tion	n.a.	n.a.		
12.1	Toxicity	MN-001	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate	n.a.	tion	n.a.	n.a.		
12.1	Toxicity: Persiste	MN-001 nce and bility:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate	n.a.	tion	n.a.	n.a.		
12.1 12.2	Toxicity: Persiste Degrada	MN-001 nce and bility: mulative	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available.	n.a.	tion	n.a.	n.a.		
12.1 12.2	Toxicity: Persiste Degrada Bioaccu	MN-001 nce and bility: mulative I:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available.	n.a.	tion	n.a.	n.a.		
12.1 12.2 12.3	Toxicity: Persiste Degrada Bioaccu Potentia Mobility	MN-001 nce and bility: mulative I: in Soil:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available.	n.a.	tion	n.a.	n.a.		
12.1 12.2 12.3 12.4	Toxicity: Persiste Degrada Bioaccu Potentia Mobility	MN-001 Ince and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available.	n.a.	tion	n.a.	n.a.		
12.1 12.2 12.3 12.4	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	MN-001 Ince and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available.	n.a.	tion	n.a.	n.a.		
12.1 12.2 12.3 12.4 12.5	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm	MN-001 mce and bility: mulative l: in Soil: of PBT and vPvB ment:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available.	n.a.	tion	n.a.	n.a.		
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12.1 12.2 12.3 12.4 12.5 12.6	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	MN-001 nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, state Section 14. Transpor	n.a.	tion Follution.	n.a.	n.a.		
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	MN-001 nce and bility: mulative l: in Soil: of PBT and vPvB nent: verse effects: isposal Method:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, state Section 14. Transpor	n.a.	tion Follution.	n.a.	n.a.		
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	MN-001 Ince and bility: mulative I: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, state Section 14. Transpor	n.a.	tion Follution.	n.a.	n.a.		
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12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D( UI 14.1	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T	MN-001 nce and bility: mulative l: in Soil: of PBT and vPvB tent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, state Section 14. Transpor DOT): Not dangerous goods.	n.a.	tion Follution.	n.a.	n.a.		
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D( UI 14.1 AI UI	Toxicity: Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T	MN-001 Ince and bility: mulative I: in Soil: of PBT and vPvB ment: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber: RANSPORT (Euronipping Name: :	Section 12. Ecologica Avoid release into the environment. Runoff from fire control or dilution wate No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal C Dispose in accordance with local, state Section 14. Transpor DOT): Not dangerous goods.	n.a.	tion Follution.	n.a.	n.a.		

<u> </u>	
Cayman	

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

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

Not dangerous goods.

Information:

**Additional Transport** 

# Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
125961-82-2	MN-001		No	No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA or	State Lists	+	
125961-82-2	MN-001		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	ner Informatio	n		
Revision Date:		02/15/2017				
Additional Info	rmation About	No data available.				
This Product:						
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.				