

	Revision:	03/13/2015
Supersedes	Revision:	02/12/2007

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	acc	ording to Regulation (EC) No. 1907/2006 as amended by (E	EC) No. 1272/2008
	Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking
1.1	Product Code:	10007103	
	Product Name:	3-thio-Pheneacrylic Acid	
	Synonyms:	3-(3-thienyl)-2-propenoic acid; 3-Thiophen-3-yl-	Acrylic Acid;
.2	Relevant identified uses o	f the substance or mixture and uses advised aga	inst:
	Relevant identified uses	: For research use only, not for human or veterin	ary use.
.3	Details of the Supplier of t	he 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
.4	Emergency telephone num	nber:	
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887
		Section 2. Hazards Identifica	ation
.1	Classification of the Subs	tance or Mixture:	
.1.1	Classification according	to Regulation (EC) No 1272/2008 [CLP]:	
	Skin Corrosion/Irritation	n, Category 2	
	Serious Eye Damage/Ey	e Irritation, Category 2	
	Specific Target Organ T	oxicity (single exposure), Category 3	
2.2	Specific Target Organ To Label Elements:	oxicity (single exposure), Category 3	
	Label Elements:	oxicity (single exposure), Category 3 gulation (EC) No 1272/2008 [CLP]:	
	Label Elements:		
	Label Elements:		
	Label Elements:		
	Label Elements: Labeling according to Re	gulation (EC) No 1272/2008 [CLP]:	
	Label Elements: Labeling according to Res GHS Signal Word:		
	Label Elements: Labeling according to Res GHS Signal Word: GHS Hazard Phrases:	gulation (EC) No 1272/2008 [CLP]: Warning	
	Label Elements: Labeling according to Res GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation	gulation (EC) No 1272/2008 [CLP]: Warning	
	Label Elements: Labeling according to Res GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious even	gulation (EC) No 1272/2008 [CLP]: Warning on. e irritation.	
	Label Elements: Labeling according to Res GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation	gulation (EC) No 1272/2008 [CLP]: Warning on. e irritation. eory irritation.	
	Label Elements: Labeling according to Res GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious even H335: May cause respirate GHS Precaution Phrases	gulation (EC) No 1272/2008 [CLP]: Warning on. e irritation. eory irritation.	
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	Label Elements: Labeling according to Res GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirat GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thore	gulation (EC) No 1272/2008 [CLP]: Warning on. e irritation. e ory irritation. s: ust/fume/gas/mist/vapors/spray}.	n}.
	Label Elements: Labeling according to Res GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirat GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thore	gulation (EC) No 1272/2008 [CLP]: Warning on. e irritation. e irritation. s: ust/fume/gas/mist/vapors/spray}. bughly after handling. oves/protective clothing/eye protection/face protection	n}.
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	Label Elements: Labeling according to Res GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirate GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thorow P280: Wear {protective gl GHS Response Phrases P302+352: IF ON SKIN: W P304+340: IF INHALED: I P305+351+338: IF IN EYE to do. Continue rinsing.	gulation (EC) No 1272/2008 [CLP]: Warning on. e irritation. cory irritation. s: ust/fume/gas/mist/vapors/spray}. oughly after handling. oves/protective clothing/eye protection/face protection : Wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posit ES: Rinse cautiously with water for several minutes.	ion comfortable for breathing.
2.2	Label Elements: Labeling according to Rest GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritation H319: Causes serious eye H335: May cause respirat GHS Precaution Phrases P261: Avoid breathing {du P264: Wash {hands} thoro P280: Wear {protective gl GHS Response Phrases P302+352: IF ON SKIN: W P304+340: IF INHALED: I P305+351+338: IF IN EYE to do. Continue rinsing. P312: Call a POISON CE	gulation (EC) No 1272/2008 [CLP]: Warning on. e irritation. rory irritation. s: ust/fume/gas/mist/vapors/spray}. oughly after handling. oves/protective clothing/eye protection/face protection : Wash with plenty of soap and water. Remove victim to fresh air and keep at rest in a posit	ion comfortable for breathing.



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		•	n persists, get medical advice/a								
	P362-	+364: Take off conta	aminated clothing and wash it I	before reuse.							
	GHS	Storage and Dispo	osal Phrases:								
Please refer to Section 7 for Storage and Section 13 for Disposal information.											
2.3	Advers	e Human Health	Causes serious eye irritation								
	Effects	and Symptoms:	Causes skin irritation.								
			Material may be irritating to t			spiratory tract.					
			May be harmful by inhalation	-	bsorption.						
			May cause respiratory syster								
			To the best of our knowledge	e, the toxicological pr	operties have no	t been thoroughly investigated.					
		Sec	tion 3. Composition	/Information	on Ingredie	nts					
CAS RTEC		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification					
119	5-52-4	3-Thiopheneacrylic	Acid	100.0 %	214-800-4	Skin Corr. 2: H315					
NA					NA	Eye Damage 2: H319					
						STOT (SE) 3: H335 H336					
			Section 4. Fi	rst Aid Measu	ires						
4.1	Descri	ption of First Aid	No data available.								
		leasures:									
	In Case	Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained per									
		Get immediate medical attention.									
	In Case	e of Skin Contact:	Immediately wash skin with s	oap and plenty of wa	ater for at least 15	5 minutes. Remove contaminate					
			clothing. Get medical attentio								
	In Case	e of Eye Contact:	Hold eyelids apart and flush e	eyes with plenty of w	ater for at least 1	5 minutes. Have eyes examined					
		-	and tested by medical persor	nel.							
	In Case	e of Ingestion:	Wash out mouth with water p	rovided person is co	nscious. Never g	ive anything by mouth to an					
			unconscious person. Get me	dical attention. Do N	OT induce vomiti	ng unless directed to do so by					
			medical personnel.								
			Section 5. Fire	Fighting Mea	asures						
5.1	Suitabl	le Extinguishing	Use alcohol-resistant foam, o	arbon dioxide, wate	r, or dry chemical	spray.					
	Media:		Use water spray to cool fire-e	exposed containers.							
	Unsuit	able Extinguishing	A solid water stream may be	inefficient.							
	Media:										
5.2	Flamm	able Properties an	dNo data available.								
	Hazard	-									
	Flash F	Pt:	No data.								
	Explos	ive Limits:	LEL: No data.	UEL: No da	ata.						
	-	nition Pt:	No data.								
5.3	-		s: As in any fire, wear self-cont	ained breathing appa	aratus pressure-d	lemand (NIOSH approved or					
			equivalent), and full protectiv		-						
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Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirat Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). 3.2 Environmental Take steps to avoid release into the environment, if safe to do so. Precautions: Safety goggles, and heavy rubber gloves). 3.3 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 Avoid prolonged or repeated exposure. Section 8. Exposure Controls/Personal Protection Section 8. Exposure Controls/Personal Protection 8.1 195-52-4 Artial Chemical Name Britain EH40 France VL Eu								
Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirat 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: 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 YL Europe 1195-52-4 3-Thiopheneacrylic Acid No data. No data. No data. 8.2 Exposure Controls Les process enclosures, local exhaust ventilation, or other engineering controls to control airbot (Ventilation etc.): levels below recommended exposure limits. 8.2. Exposure Controls: <td< td=""><td></td><td></td><td>Section 6. Ac</td><td>cidental Release M</td><td>easures</td><td></td></td<>			Section 6. Ac	cidental Release M	easures			
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CAS # Partial Chemical Name OSHA TWA ACGIH TWA Other Limits 1195-52-4 3-Thiopheneacrylic Acid No data. No data. No data. 8.2 Exposure Controls: Bartial Chemical Name Use process enclosures, local exhaust ventilation, or other engineering controls to control airbox (Ventilation etc.): Iverset with the second exposure limits. 8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airbox (Ventilation etc.): Iverset with the second 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 NIOSH approved respirator, as conditions warrant. (Specify Type): Work/Hygienic/Maintenan Do not take internally. Eacilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling.	ł	Partial Chemical	Name	Britain EH40	France VL	Europe		
1195-52-4 3-Thiopheneacrylic Acid No data. No data. No data. 8.2 Exposure Controls: 8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airbox (Ventilation etc.): levels 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 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 show wash thoroughly after handling.	5-52-4	3-Thiopheneacryl	ic Acid	No data.	No data.	No data.		
8.2 Exposure Controls: 8.2.1 Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airbox (Ventilation etc.): 8.2.2 Personal protection equipment: Eye Protection: Safety glasses Protective Gloves: Compatible chemical-resistant gloves Other Protective Clothing:Lab coat Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show	Ŀ	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits		
8.2.1 Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airbot levels 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 NIOSH approved respirator, as conditions warrant. (Specify Type): Do not take internally. verk/Hygienic/Maintenan Do not take internally. vertices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety shou	5-52-4	3-Thiopheneacryl	ic Acid	No data.	No data.	No data.		
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Other Protective Clothing:Lab coat Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type): Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling.		al protection equi	pment:					
Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type): Work/Hygienic/Maintenan Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show Wash thoroughly after handling.	Eye Pro	al protection equi tection:	pment: Safety glasses					
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	Eye Pro Protecti Other P Respira (Specify Work/Hy	al protection equi tection: ve Gloves: rotective Clothing tory Equipment Type): /gienic/Maintenar	 pment: Safety glasses Compatible chemical- g:Lab coat NIOSH approved response n Do not take internally Facilities storing or ut Wash thoroughly afte 	-resistant gloves pirator, as conditions warrant. ilizing this material should be	equipped with an eyewash	and a safety show		
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	Eye Pro Protecti Other P Respira (Specify Work/Hy	al protection equi tection: ve Gloves: rotective Clothing tory Equipment Type): /gienic/Maintenar	 pment: Safety glasses Compatible chemical- g:Lab coat NIOSH approved response n Do not take internally Facilities storing or ut Wash thoroughly afte 	-resistant gloves pirator, as conditions warrant. ilizing this material should be	equipped with an eyewash	and a safety show		
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	Eye Pro Protecti Other P Respira (Specify Work/Hy	al protection equi tection: ve Gloves: rotective Clothing tory Equipment Type): /gienic/Maintenar	 pment: Safety glasses Compatible chemical- g:Lab coat NIOSH approved response n Do not take internally Facilities storing or ut Wash thoroughly afte 	-resistant gloves pirator, as conditions warrant. ilizing this material should be	equipped with an eyewash	and a safety show		
	Eye Pro Protecti Other P Respira (Specify Work/Hy	al protection equi tection: ve Gloves: rotective Clothing tory Equipment Type): /gienic/Maintenar	 pment: Safety glasses Compatible chemical- g:Lab coat NIOSH approved response n Do not take internally Facilities storing or ut Wash thoroughly afte 	-resistant gloves pirator, as conditions warrant. ilizing this material should be	equipped with an eyewash	and a safety show		
		Protecti Emerge Environ Precauti Methods Contain Up: Precauti in Hand Precauti in Storir Exposur 5-52-4 Exposur Enginee	Protective Equipment and Emergency Procedures: Environmental Precautions: Methods and Material For Containment and Cleanin Up: Precautions To Be Taken in Handling: Precautions To Be Taken in Storing: Sec Exposure Parameters: Partial Chemical 5-52-4 3-Thiopheneacryl Partial Chemical 5-52-4 3-Thiopheneacryl Exposure Controls: Engineering Controls	Protective Precautions, Protective Equipment and Emergency Procedures: Environmental As conditions warrant and appropriate pers Take steps to avoid of Precautions: Methods and Material For Contain spill and coll Containment and Cleaning Transfer to a chemic Up: Section 7. Precautions To Be Taken Avoid breathing dust/ in Handling: Precautions To Be Taken Avoid prolonged or re Precautions To Be Taken Keep container tightly in Storing: Section 8. Exposu Exposure Parameters: Partial Chemical Name -52-4 3-Thiopheneacrylic Acid Partial Chemical Name -52-4 3-Thiopheneacrylic Acid Exposure Controls: Use process enclosur	Protective Precautions, Avoid raising and breathing dust, and provide aded Protective Equipment and As conditions warrant, wear a NIOSH approved se Emergency Procedures: and appropriate personal protection (rubber boots, Environmental Take steps to avoid release into the environment, i Precautions: Methods and Material For Contain spill and collect, as appropriate. Containment and Cleaning Transfer to a chemical waste container for disposa Up: Section 7. Handling and Stor Precautions To Be Taken Avoid prolonged or repeated exposure. Precautions To Be Taken Keep container tightly closed. in Handling: Avoid prolonged or repeated exposure. Precautions To Be Taken Keep container tightly closed. in Storing: Store in accordance with information listed on the p Section 8. Exposure Controls/Person Exposure Parameters: Partial Chemical Name Britain EH40 -52-4 3-Thiopheneacrylic Acid No data. Partial Chemical Name OSHA TWA -52-4 3-Thiopheneacrylic Acid No data. Exposure Controls: Esposure Controls: Engineering Controls Use proc	Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation. Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparent and appropriate personal protection (rubber boots, safety goggles, and heavy and appropriate personal protection (rubber boots, safety goggles, and heavy and appropriate personal protection (rubber boots, safety goggles, and heavy and appropriate personal protection (rubber boots, safety goggles, and heavy and appropriate personal protection (rubber boots, safety goggles, and heavy and breathing appropriate personal protection (rubber boots, safety goggles, and heavy and breathing appropriate personal protection (rubber boots, safety goggles, and heavy and beathing appropriate personal protection (rubber boots, safety goggles, and heavy and beathing appropriate personal protection for disposal in accordance with local rup; Section 7. Handling and Storage Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure. 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 Exposure Parameters: Partial Chemical Name -52-4 3-Thiopheneacrylic Acid No data. -52-4 3-Thiopheneacrylic Acid No data. -52-4 3-Thiopheneacrylic Acid No data. -		



Revision: 03/13/2015 Supersedes Revision: 02/12/2007

	******	S	ection 9. Physi	ical and (Chemical P			ion: 02/12/200		
9.1	Informati		sical and Chemical Province			0001100				
••••	Physical	-		-	X] Solid					
	•	nce and Odor:	A crystalline so							
	Melting Point:		152.00 C - 154							
	Boiling F		No data.	1.00 0						
	Flash Pt		No data.							
		tion Rate:	No data.							
	-	e Limits:				data				
	-			LEL: No data. UEL: No data.						
Vapor Pressure (vs. Air or Hg):		essure (vs. All of	min no uala.							
	Vapor Density (vs. Air =): No data.							
	-									
	-	Gravity (Water = '	-							
	Solubility in Water:		No data.							
	Autoigni		No data.							
9.2	Other Inf	ormation								
	Percent	Volatile:	No data.							
	Molecula	ar Formula & Weig	ght: C7H6O2S	154.2						
			Section 10.	Stability	and Reacti	vity				
10.1	Reactivit	iy:	No data available.							
10.2	Stability: Unstable [] Stable [X]									
10.3	Stability	Note(s):	Stable if stored in acco	ordance with i	nformation 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 bases							
	To Avoid	-	strong oxidizing agent	S						
10.6	Hazardo	us	No data available.							
	Decomp	osition Or								
	Byprodu									
	,		Section 11.	Toxicoloo	uical Inform	ation				
11.1	Informat	ion on	The toxicological effect		, 		udied			
		gical Effects:				i alorougiliy Si	uuleu.			
CAS		-	ponents (Chemical Na	ame)	NTP	IARC	ACGIH	OSHA		
119	5-52-4	3-Thiopheneacryl			n.a.	n.a.	n.a.	n.a.		
		ļ	Section 12.	Ecologia	al Informat	ion	Į	ļ		
12.1	Toxicity		Avoid release into the	v						
			Runoff from fire control or dilution water may cause pollution.							
12.2	Persiste	nce and	No data available.							
	Degrada									
100	-	-	No data available							
12.3	Bioaccu		No data available.							
	Potentia									
12.4	Mobility	in Soil:	No data available.							
12.5	Results	of PBT and vPvB	No data available.							
	assessm	ient:								
							_	/ulti-region for		



Page: 5 of 5

				-			-	-
Supersedes F	Rev	isi	on:	0	2/1	2/2	200	7

12.6 Ot	her adv	erse effects:	No data available.					
			Section 13. Dispos	al Considera	tions			
13.1 Wa	3.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.							
			Section 14. Trans	sport Informa	tion			
14.1 LA	AND TR	ANSPORT (US I	DOT):					
DOTI	Proper \$	Shipping Name:	Not dangerous goods.					
_	Hazard							
	A Numb							
		-	opean ADR/RID):					
ADR/RID Shipping Name: UN Number:			Not dangerous goods.					
-	rd Class							
		ISPORT (ICAO/I	IATA):					
		hipping Name:	Not dangerous goods.					
Additiona			Transport in accordance with lo	cal, state, and federa	al regulations.			
Informati								
			Section 15. Regul	atory Informa	ition			
EPA SAR	RA (Sup	erfund Amendm	nents and Reauthorization Act of	of 1986) Lists				
CAS #	ŀ	lazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
1195-52	2-4 3	3-Thiopheneacry	lic Acid	No	No	No		
CAS #	ŀ	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists			
1195-52-4 3-Thiopheneacrylic Acid			lic Acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulator	ry Inforr	nation	This SDS was prepared in acco	rdance with 29 CFR	1910.1200 and Regu	ation (EC)		
Statemen	nt:		No.1272/2008.					
			Section 16. Oth	ner Informatio	n			
Revision	Date:		03/13/2015					
Additiona	Additional Information About		No data available.					
This Prod	luct:							
Company	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,					
			currently available to us. Howev express or implied, with respect		-			
			use. Users should make their or					
			their particular purposes.			.,		