

	Section 1.	Identification of the Substance/Mixture and of the	e Company/Undertaking					
.1	Product Code: Product Name: Synonyms:	21554 Fluensulfone 5-chloro-2-[(3,4,4-trifluoro-3-buten-1-yl)sulfonyl]	l-thiazole;					
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 t Company Name:	he Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108						
	Web site address: Information:	www.caymanchem.com Cayman Chemical Company	+1 (734)971-3335					
4	Emergency telephone num Emergency Contact:	nber: CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887					
		Section 2. Hazards Identifica	ition					
2.2	Label Elements:							
	GHS Signal Word:	Warning						



Revision: 08/23/2017

2.3		e Human Health and Symptoms:	May be harmful by inhalation May cause respiratory system To the best of our knowledge	ation. wed. irritating to the mucous membranes and upper respiratory tract. by inhalation or skin absorption.					
			oonents (Chemical Name)/	Concentration	EC No./ EC Index No.	GHS Classification			
	90-98-1	Fluensulfone		100.0 %	NA NA	Acute Tox.(O) 4: H302 Skin Corr. 2: H315 Eye Damage 2: H319 STOT (SE) 3: H335 H336			
		•	Section 4. Fi	rst Aid Meas	ures	·			
4.1	Descri	otion of First Aid							
	Measu In Case	res: e of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.						
	In Case	e of Skin Contact:							
	In Case	e of Eye Contact:							
	In Case	e of Ingestion:	Wash out mouth with water p unconscious person. Get me medical personnel.	-	-	ive anything by mouth to an ng unless directed to do so by			
			Section 5. Fire	Fighting Me	asures				
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam, o	carbon dioxide, wat	er, or dry chemical	spray.			
	Media:		Use water spray to cool fire-exposed containers.						
	Unsuita Media:	able Extinguishing	A solid water stream may be	inefficient.					
5.2	Flammable Properties andNo data available.								
	Hazard	5:	No data available.						
	Flash F	D t ·	No data.						
		ive Limits:	LEL: No data.	UEL: No c	lata.				
	-	nition Pt:	No data.						
5.3	Fire Fig	ghting Instructions	As in any fire, wear self-cont equivalent), and full protectiv		-				

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Revision: 08/23/2017

		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.						
	Secti	on 8. Exposure Controls/Personal Protection						
8.1	Exposure Parameters:							
8.2	Exposure Controls:							
8.2.1	Engineering Controls	Use 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:	Safety glasses						
	Protective Gloves:	Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat							
	Respiratory Equipment	-						
	(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 shower.						
		Wash thoroughly after handling.						
		No data available.						
	Se	ection 9. Physical and Chemical Properties						
9.1	Information on Basic Phys	ical 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	mm No data.						
	Hg):							
	Vapor Density (vs. Air = 1)	: No data.						
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Revision: 08/23/2017

	HEMICAL										
	-	avity (Water =	1):	No data.							
	Solubility in	Water:		No data.							
	Solubility No	otes:		Soluble in:	DMSO;						
Octanol/Water Partit		ter Partition	No data.								
	Coefficient:										
	Autoignitior	n Pt:		No data.							
	Decomposit	tion Temperat	ure:	No data.							
	Viscosity:			No data.							
9.2	Other Inform	ation									
	Percent Volatile:		No data.								
	Molecular F	ormula & Wei	ght:	C7H5CIF3	NO2S2	291.7					
			-	Section 1	0. Stal	bility and	React	ivitv			
10.1	Reactivity:			ta available.							
10.2	Stability:		Unstal	Jnstable [] Stable [X]							
10.3	Stability Not	te(s):	Stable if stored in accordance with information listed on the product insert.								
	Polymerizat	ion:	Will oc	cur []	Will not oc	cur [X]					
10.4	Conditions			b data available.							
10.5		lity - Materials			nents						
10.0	To Avoid:	inty materiale	onong		Jointo						
10.6	Hazardous		carbor	n dioxide							
10.0	Decomposit	ion or	carbon monoxide								
	-		hydrogen fluoride								
	Byproducts:		nitrogen oxides								
				sulfur oxides							
			0.0		. Taula			ation .			
				Section 11. Toxicological Information							
11.1	Information Toxicologic		The toxicological effects of this product have not been thoroughly studied.								
CAS	# Ha	zardous Com	nponents (Chemical Name)			NTP	IARC	ACGIH	OSHA		
3182		iensulfone					n.a.	n.a.	n.a.	n.a.	
			5	Section 1	12. Ecc	logical Ir	forma	tion	•		
12.1	Toxicity: Avo			Section 12. Ecological Information Avoid release into the environment.							
			Runoff from fire control or dilution water may cause pollution.								
12.2	Persistence	and	No data available.								
12.2	Degradabilit		NU UA								
40.0	-	-		(
12.3	Bioaccumul	ative	No da	ta available.							
	Potential:										
12.4	Mobility in S	Soil:	No da	ta available.							
12.5	Results of P assessment	PBT and vPvB	No da	ta available.							
12.6	Other adver	se effects:	No da	ta available.							
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Revision: 08/23/2017

Page: 5 of 5

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		Section 13. Dispo	sal Considera	ations		
13.1 Waste D	Disposal Method:	Dispose in accordance with loc	cal, state, and federa	l regulations.		
		Section 14. Trar	nsport Informa	ation		
14.1 LAND 1	RANSPORT (US	DOT):				
DOT Prope DOT Hazar	er Shipping Name rd Class:	Not dangerous goods.				
UN/NA Nui	mber:					
14.1 LAND 1	RANSPORT (Eur	opean ADR/RID):				
ADR/RID S	hipping Name:	Not dangerous goods.				
UN Numbe						
Hazard Cla						
	ANSPORT (ICAO/					
	Shipping Name:					
Additional Tra Information:	nsport	Transport in accordance with le	ocal, state, and ledel	ai regulations.		
		Section 15 Deg	latory Inform			
		Section 15. Regu	•			
		nents and Reauthorization Act				
CAS # 318290-98-1	Fluensulfone	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
				-		
CAS #		ponents (Chemical Name)	Other US EPA or			
318290-98-1	Fluensulfone	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	₹ 1910.1200 and R	egulation (EC)	
		Section 16. Ot	her Informatio	 on		
Revision Date:		08/23/2017				
Additional Info	rmation About	No data available.				
This Product:						
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howe express or implied, with respec- use. Users should make their their particular purposes.	ever, we make no war of to such information	rranty of merchanta n, and we assume n	ability or any other warrant no liability resulting from its	

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