

SAFETY DATA SHEET Flufenamic Acid

Revision: 08/26/2019 Supersedes Revision: 02/27/2017

	CHEMICAL		Supersedes Revision: 02/27/2017					
		o Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83						
	Section 1. Ide	entification of the Substance/Mixture and of th	ne Company/Undertaking					
1.1	Product Code: 21447							
	Product Name:	Flufenamic Acid						
	Synonyms:	2-[[3-(trifluoromethyl)phenyl]amino]-benzoic acid; CI-440; Fluphenamic Acid; NSC 82699; NSC 219007;						
.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	hary use.					
.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 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 Identifica	ation					
	GHS Signal Word:	Danger						
	GHS Hazard Phrases:							
	H301: Toxic if swallowed.							
	H315: Causes skin irritation.							
	H319: Causes serious eye irritation.							
	GHS Precaution Phrases:							
	P264: Wash {hands} thoroughly after handling.							
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.							
	GHS Response Phrases:							
	P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.							
	P302+352: IF ON SKIN: Wash with plenty of soap and water.							
	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy							
	to do. Continue rinsing. P330: Rinse mouth.							
	P330. Rinse mouth. P332+313: If skin irritation occurs, get medical advice/attention.							
	P337+313: If eye irritation persists, get medical advice/attention.							
	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.							
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2.3	Adverse Human Health	Causes serious eye irritatior	າ.					
	Effects and Symptoms:	Causes skin irritation. Material may be irritating to the mucous membranes and upper respiratory tract.						
		May be harmful by inhalation	n or skin absorption					
		May cause respiratory syste	em irritation.					
		Toxic if swallowed.						
		To the best of our knowledg	e, the toxicological p	properties have no	t been thoroughly investigated.			
	Sec	tion 3. Compositior	n/Information	on Ingredie	ents			
CAS RTE		ponents (Chemical Name)/ ation No.	Concentration	EC No./ EC Index No.	GHS Classification			
	0-78-9 Flufenamic acid		100.0 %	208-494-1	Acute Tox.(O) 3: H301			
CB43	75000			NA	Skin Corr. 2: H315			
					Eye Damage 2: H319			
		Section 4. F	irst Aid Meas	sures				
4.1	Description of First Aid							
	Measures:	Demonstrational and the state		-1				
	In Case of Inhalation:	Get immediate medical atter	0.0	al respiration or gi	ve oxygen by trained personnel.			
	In Case of Skin Contact:	Immediately wash skin with	soap and plenty of v	vater for at least 1	5 minutes. Remove contaminate			
		clothing. Get medical attention	on if symptoms occu	ur. Wash clothing b	pefore reuse.			
	In Case of Eye Contact:	Hold eyelids apart and flush	n 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							
			edical attention. Do I	NOT induce vomiti	ng unless directed to do so by			
		medical personnel.						
		Section 5. Fire	e Fighting Me	asures				
5.1	Suitable Extinguishing	Use alcohol-resistant foam,	carbon dioxide, wat	er, or dry chemica	l spray.			
	Media: Use water spray to cool fire-exposed containers.							
	Unsuitable Extinguishing A solid water stream may be inefficient. Media:							
5.2	Flammable Properties andNo data available. Hazards:							
		No data available.						
	Flash Pt:	No data.						
	Explosive Limits:	LEL: No data.	UEL: No o	data.				
	Autoignition Pt:	No data.						
5.3	Fire Fighting Instruction	s: As in any fire, wear self-con	tained breathing app	paratus pressure-c	demand (NIOSH approved or			
		equivalent), and full protecti		-				



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	S	Section 6. Accidental Release Measures					
6.1	Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.						
		As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,					
6.2		Take steps to avoid release into the environment, if safe to do so.					
	Precautions:						
6.3		Contain spill and collect, as appropriate.					
	Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local regulations. Up:						
		Section 7. Handling and Storage					
 7.1	Precautions To Be Taken A	Avoid breathing dust/fume/gas/mist/vapours/spray.					
		Avoid prolonged or repeated exposure.					
7.2	U	ecautions To Be Taken Keep container tightly closed.					
		Store in accordance with information listed on the product insert.					
	Sectio	on 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						
8.2	Exposure Controls:						
8.2.1		Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
		evels below recommended exposure limits.					
8.2.2	Personal protection equipn	nent:					
	Eye Protection:	Safety glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing:L						
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
	ce Practices: F						
	Wash thoroughly after handling.						
	No data available.						
	Se	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	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 r	nm No data.					
	Hg):	No data.					
	Vapor Density (vs. Air = 1):	no dala.					
		Multi-region format					

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Specific Gravity (Water = 1):		No data.								
	Solubility in Water:			No data.						
	Solubility Notes:			~50 µg/ml in PBS (pH 7.2); ~11 mg/ml in EtOH; ~39 mg/ml in DMSO; ~59 mg/ml in DMF;						
	Octanol/Water Partition			No data.						
	Coefficie	nt:								
	Autoigni	tion Pt:		No data.						
	Decompo	osition Temperat	ure:	No data.						
	Viscosity	/:		No data.						
9.2	Other Info	ormation								
				No data.						
	Percent Volatile: Molecular Formula & Weight:			No data. C14H10F3NO2 281.2						
	molecula		-							
			Se	ection 10	 Stability and 	Reactiv	rity			
10.1	Reactivit	y:	No data	a available.						
10.2	Stability:		Unstab	le [] Sta	able [X]					
10.3	Stability	Note(s):	Stable i	if stored in ac	cordance with informa	tion listed or	n the product i	nsert.		
	Polymeri	zation:	Will occ	ccur [] Will not occur [X]						
10.4	Conditio	ns To Avoid:	No data	a available.						
10.5		tibility - Materials			nts					
	To Avoid	-	outing	oxiaizing agoi						
10.6	Hazardo		aarban	diovido						
10.0				on dioxide						
	-	osition or		oon monoxide rogen fluoride						
	Byprodu	CtS:		n oxides						
			milogei	T UNICES						
			Se	ction 11.	Toxicological	Informa	tion			
11.1	Informati	on on	The tox	cicological effe	ects of this product ha	ve not been	thoroughly stu	ıdied.		
	Toxicolo	gical Effects:	Flufena	mic Acid - To	oxicity Data: Oral TDL) (woman): 2	2160 mg/kg/26	SW (intermitter	nt); Oral LD50	
		-	(rat): 24	19 mg/kg; Intr	aperitoneal LD50 (rat)	: 185 mg/kg;	; Subcutaneou	us LD50 (rat):	280 mg/kg; Oral	
			LD50 (r	mouse): 490 r	mg/kg; Intraperitoneal	LD50 (mous	se): 150 mg/kg	; Subcutaneo	us LD50	
			(mouse	use): 620 mg/kg;						
	Chronic	Toxicological	Flufena	namic Acid - Investigated as a drug, mutagen, primary irritant, and reproductive effector.						
	•			select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
			See act	actual entry in RTECS for complete information.						
			Flufena	mic Acid RTE	ECS Number: CB4375	000				
CAS	¥	Hazardous Com	oonents	(Chemical N	Name)	NTP	IARC	ACGIH	OSHA	
)-78-9	Flufenamic acid		(0		n.a.	n.a.	n.a.	n.a.	
	100							11.0.	1	
			S	ection 12	2. Ecological Ir	nformatio	on			
12.1	Toxicity:		Avoid r	id release into the environment.						
			Runoff	unoff from fire control or dilution water may cause pollution.						
12.2	12.2 Persistence and No dat			data available.						
Degradability:										
12.3 Bioaccumulative No data available.										
Potential:										
				ata available.						
12.5										
	assessm	ent:								
								N	lulti-region format	



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12.6 Other a	dverse effects:	No data available.					
Section 13. Disposal Considerations							
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.							
		Section 14. Tran	sport Informa	tion			
14.1 LAND	TRANSPORT (US	DOT):					
DOT Prop	er Shipping Name	Toxic solids, organic, n.o.s	. (Flufenamic Acid)				
DOT Hazard Class: 6.1 POISON							
UN/NA Nu	mber:	UN2811 Packing Group:			Ш		
		POISON 6					
14.1 LAND	TRANSPORT (Euro	opean ADR/RID):					
ADR/RID S	Shipping Name:	Toxic solids, organic, n.o.s	. (Flufenamic Acid)				
UN Numbe	er:	2811	Packing Gro	up:	III		
Hazard Cla	ass:	6.1 - POISON					
14.3 AIR TR	ANSPORT (ICAO/	IATA):					
	A Shipping Name:	Toxic solids, organic, n.o.s	. (Flufenamic Acid)				
UN Numbe		2811	Packing Group:		111		
Hazard Cla	ass:	6.1 - POISON	IATA Classif	ication:	6.1		
Additional Tra	insport	Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.					
		Therefore packaging does not			Excepted Quantity.		
		Section 15. Regu	latory Informa	ation			
EPA SARA (S	uperfund Amendm	nents and Reauthorization Act	of 1986) Lists	-	1		
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
530-78-9	Flufenamic acid		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
530-78-9				CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Inf Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Ot	her Informatio	'n			
Revision Date:	:	08/26/2019					
Additional Info	ormation 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.					
					Multi-region format		