

.1			EC) No. 1272/2008					
1	Section 1. Ide	entification of the Substance/Mixture and of th	e Company/Undertaking					
	Product Code:	18598						
	Product Name:	Hexaflumuron						
	Synonyms:	N-[[[3,5-dichloro-4-(1,1,2,2-tetrafluoroethoxy)phenyl]amino]carbonyl]-2,6-difluoro-benzamide						
	AI-3-29832;OMS-3031; XRD-473;							
2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses:	For research use only, not for human or veterin	nary 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					
4	Emergency telephone number	er:						
	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					
	Label Elements:							
	GHS Signal Word:	Warning						
		Warning						
	GHS Signal Word:	Warning						
	GHS Signal Word: GHS Hazard Phrases:	-						
	GHS Signal Word: GHS Hazard Phrases: H332: Harmful if inhaled.	ife.						
	GHS Signal Word: GHS Hazard Phrases: H332: Harmful if inhaled. H400: Very toxic to aquatic li	ife.						
	GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H332: Harmful if inhaled. H400: Very toxic to aquatic li H410: Very toxic to aquatic li GHS Precaution Phrases:	ife.						
	GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H332: Harmful if inhaled. H400: Very toxic to aquatic li H410: Very toxic to aquatic li GHS Precaution Phrases:	ife. ife with long lasting effects. /fume/gas/mist/vapors/spray}.						
	GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H332: Harmful if inhaled. H400: Very toxic to aquatic li H410: Very toxic to aquatic li GHS Precaution Phrases: P261: Avoid breathing {dust/	ife. ife with long lasting effects. /fume/gas/mist/vapors/spray}.						
	GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H332: Harmful if inhaled. H400: Very toxic to aquatic li H410: Very toxic to aquatic li GHS Precaution Phrases: P261: Avoid breathing {dust/ P273: Avoid release to the e GHS Response Phrases:	ife. ife with long lasting effects. /fume/gas/mist/vapors/spray}. nvironment.	tion comfortable for breathing.					
	GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H332: Harmful if inhaled. H400: Very toxic to aquatic li H410: Very toxic to aquatic li GHS Precaution Phrases: P261: Avoid breathing {dust/ P273: Avoid release to the e GHS Response Phrases: P304+340: IF INHALED: Rel	ife. ife with long lasting effects. /fume/gas/mist/vapors/spray}.	tion comfortable for breathing.					
	GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H332: Harmful if inhaled. H400: Very toxic to aquatic li H410: Very toxic to aquatic li GHS Precaution Phrases: P261: Avoid breathing {dust/ P273: Avoid release to the e GHS Response Phrases: P304+340: IF INHALED: Rel	ife. ife with long lasting effects. /fume/gas/mist/vapors/spray}. nvironment. move victim to fresh air and keep at rest in a posi	tion comfortable for breathing.					
	GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H332: Harmful if inhaled. H400: Very toxic to aquatic li H410: Very toxic to aquatic li H410: Very toxic to aquatic li GHS Precaution Phrases: P261: Avoid breathing {dust/ P273: Avoid release to the e GHS Response Phrases: P304+340: IF INHALED: Res P312: Call a POISON CENT	ife. ife with long lasting effects. 'fume/gas/mist/vapors/spray}. nvironment. move victim to fresh air and keep at rest in a posi 'ER or doctor/physician if you feel unwell.	tion comfortable for breathing.					
	GHS Signal Word: GHS Signal Word: GHS Hazard Phrases: H332: Harmful if inhaled. H400: Very toxic to aquatic li H410: Very toxic to aquatic li H410: Very toxic to aquatic li GHS Precaution Phrases: P261: Avoid breathing {dust/ P273: Avoid release to the e GHS Response Phrases: P304+340: IF INHALED: Re P312: Call a POISON CENT P391: Collect spillage.	ife. ife with long lasting effects. 'fume/gas/mist/vapors/spray}. nvironment. move victim to fresh air and keep at rest in a posi 'ER or doctor/physician if you feel unwell.						



2.0	Adverse	Human Health	Harmful if inhaled					
Effects and Symptoms:			<ul> <li>Harmful if inhaled.</li> <li>Material may be irritating to the mucous membranes and upper respiratory tract.</li> <li>May be harmful by ingestion or skin absorption.</li> <li>May cause eye, skin, or respiratory system irritation.</li> <li>Very toxic to aquatic life with long lasting effects.</li> <li>To the best of our knowledge, the toxicological properties have not been thoroughly investigated.</li> </ul>					
		Sect	tion 3. Composition	/Information	on Ingredie	ents		
RTECS #REACH Registra86479-06-3Benzamide,		Hazardous Com REACH Registra	oonents (Chemical Name)/ tion No.	Concentration 100.0 %	EC No./ EC Index No. 401-400-1 NA	GHS Classification		
			1,1,2,2-tetrafluoroethoxy) p			Acute Tox.(I) 4: H332 Aquatic (A) 1: H400 Aquatic (C) 1: H410		
			Section 4. Fi	rst Aid Measu	ures	·		
<b>1</b> .1	Descrip	tion of First Aid						
	Measure							
	In Case	of Inhalation:	Get immediate medical atten		l respiration or gi	ve oxygen by trained personnel.		
	In Case	of Skin Contact:	-			5 minutes. Remove contaminate		
	In Case	of Eve Contact:	clothing. Get medical attention		-			
	In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes exar and tested by medical personnel.							
	In Case	of Ingestion:	Wash out mouth with water p	provided person is co	onscious. Never g	ive anything by mouth to an		
			-	dical attention. Do N	OT induce vomiti	ng unless directed to do so by		
			medical personnel.					
			Section 5. Fire	Fighting Mea	asures			
5.1		e Extinguishing	Use alcohol-resistant foam, o		r, or dry chemica	l spray.		
	Media:	kla Estinausiakina	Use water spray to cool fire-	-				
	Media:	Unsuitable Extinguishing A solid water stream may be inefficient.						
	meala.							
5.2	Flamma	ble Properties an	<b>d</b> No data available.					
5.2	Flamma Hazards	-	<b>d</b> No data available.					
5.2		-	<b>d</b> No data available. No data available.					
5.2		3:						
5.2	Hazards Flash Pt	3:	No data available.	UEL: No da	ata.			
5.2	Hazards Flash Pf Explosiv	::	No data available. No data.	UEL: No da	ata.			
	Hazards Flash Pf Explosiv Autoign	:: ve Limits: ition Pt:	No data available. No data. LEL: No data. No data. s: As in any fire, wear self-cont	ained breathing app	aratus pressure-c			
5.2	Hazards Flash Pf Explosiv Autoign	:: ve Limits: ition Pt:	No data available. No data. LEL: No data. No data.	ained breathing app	aratus pressure-c			
	Hazards Flash Pf Explosiv Autoign	:: ve Limits: ition Pt:	No data available. No data. LEL: No data. No data. s: As in any fire, wear self-cont	ained breathing app	aratus pressure-c			
	Hazards Flash Pf Explosiv Autoign	:: ve Limits: ition Pt:	No data available. No data. LEL: No data. No data. s: As in any fire, wear self-cont	ained breathing app	aratus pressure-c			
	Hazards Flash Pf Explosiv Autoign	:: ve Limits: ition Pt:	No data available. No data. LEL: No data. No data. s: As in any fire, wear self-cont	ained breathing app	aratus pressure-c			
	Hazards Flash Pf Explosiv Autoign	:: ve Limits: ition Pt:	No data available. No data. LEL: No data. No data. s: As in any fire, wear self-cont	ained breathing app	aratus pressure-c			
	Hazards Flash Pf Explosiv Autoign	:: ve Limits: ition Pt:	No data available. No data. LEL: No data. No data. s: As in any fire, wear self-cont	ained breathing app	aratus pressure-c			
	Hazards Flash Pf Explosiv Autoign	:: ve Limits: ition Pt:	No data available. No data. LEL: No data. No data. s: As in any fire, wear self-cont	ained breathing app	aratus pressure-c			
	Hazards Flash Pf Explosiv Autoign	:: ve Limits: ition Pt:	No data available. No data. LEL: No data. No data. s: As in any fire, wear self-cont	ained breathing app	aratus pressure-c			



		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	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 equipr	nent:				
	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.				
	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	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	mm No data.				
	Hg): Vapor Density (vs. Air – 1):	No data.				
	Vapor Density (vs. Air = 1):	INU Uala.				
		Multi-region forma				

# Cayman

## SAFETY DATA SHEET Hexaflumuron

	Specific Gravity (Water = 1):		-	No data.					
	-	/ in Water:		No data.					
	Solubility	/ Notes:	~0.3 mg/ml	~0.3 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2); ~10 mg/ml in DMSO & DMF;					
	Octanol/	Nater Partition	No data.	No data.					
	Coefficient: Autoignition Pt:								
	Decompo	sition Temperat	Ire: No data.						
	Viscosity	/:	No data.						
9.2	Other Info	ormation							
	Percent Volatile: Molecular Formula & Weight:			No data.					
				No data. C16H8Cl2F6N2O3 461.1					
					<u> </u>				
			Section 1	0. Stability and	Reactiv	vity			
10.1	Reactivit	y:	No data available.						
10.2	Stability:		Unstable [ ] S	Stable [ X ]					
10.3	Stability	Note(s):	Stable if stored in a	accordance with information	tion listed o	on the product	insert.		
	Polymeri	zation:	Will occur [ ]						
10.4	Conditio	ns To Avoid:	No data available.						
10.5	Incompa	tibilitv - Materials	strong oxidizing ag	ents					
	To Avoid	-	3 3 3 3 3						
10.6	Hazardo		carbon dioxide						
		osition or	carbon monoxide						
	Byprodu		hydrogen chloride						
	Byprodu		hydrogen fluoride						
			nitrogen oxides	-					
			Section 11	. Toxicological	Informa	ation			
11.1	Informati	on on	The toxicological e	ffects of this product hav	/e not beer	n thoroughly st	udied.		
		gical Effects:	•	aflumuron - Toxicity Data: Oral LD50 (rat): >5 gm/kg;					
		Toxicological		aflumuron - Investigated as an agricultural chemical.					
		Ioxicological		select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.					
	See ad			ctual entry in RTECS for complete information.					
CAS			oonents (Chemica	-	NTP	IARC	ACGIH	OSHA	
8647	'9-06-3	Benzamide, N-[[[3	,5-dichloro-4-(1,1,2	,2-tetrafluoroethoxy) p	n.a.	n.a.	n.a.	n.a.	
			Section 1	2. Ecological In	format	ion			
12.1	Toxicity: Avoid		Avoid release into	void release into the environment.					
			Runoff from fire co	ntrol or dilution water ma	ay cause po	ollution.			
<b>12.2 Persistence and</b> No data available.									
Degradability:									
12.3 Bioaccum		nulative	No data available.						
	Potential:								
12.4			No data available.	o data available.					
12.5	-								
1.2.0	assessm								
12.6			No data available.						
12.0	<b>12.6 Other adverse effects:</b> No da								
1							-		
							N	lulti-region format	

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		Section 13. Dispos	al Considera	tions		
13.1 Waste I	Disposal Method:	Dispose in accordance with loca	al, state, and federal	regulations.		
		Section 14. Trans	sport Informa	tion		
14.1 LAND	TRANSPORT (US	DOT):				
DOT Prop	er Shipping Name	: Environmentally hazardous	substances, solid, n	o.s. (Hexaflumuron)		
DOT Haza	rd Class:	9 CLASS 9				
UN/NA Nu	mber:	UN3077	Packing Group:		Ш	
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):				
ADR/RID S	Shipping Name:	Environmentally hazardous	substances, solid, n	o.s. (Hexaflumuron)		
UN Numbe	er:	3077	Packing Gro	up:	III	
Hazard Cla	ass:	9 - CLASS 9				
	ANSPORT (ICAO/	-				
	A Shipping Name:	Environmentally hazardous				
UN Numbe		3077	Packing Gro	-	 	
Hazard Cla		9 - CLASS 9	IATA Classif		9	
Additional Tra	Insport	Transport in accordance with lo		-	ntod Questity Questi	
Information:		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 h				
		Section 15. Regul		-	acoptod Quantity.	
		nents and Reauthorization Act	•			
CAS #	-	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
86479-06-3	Benzamide,		No	No	No	
	N-[[[3,5-dichloro-	4-(1,1,2,2-tetrafluoroethoxy) p				
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists			
86479-06-3	Benzamide,	· · · ·		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA		
	N-[[[3,5-dichloro-4-(1,1,2,2-tetrafluoroethoxy) p		PROP.65: No			
Regulatory Information		This SDS was prepared in acco	rdance with 29 CFR	1910.1200 and Regu	lation (EC)	
Statement:		No.1272/2008.				
		Section 16. Oth	ner Informatio	n		
Revision Date:		04/07/2017				
Additional Information About		No data available.				
This Product:						
Company Poli	cy or Disclaimer:	DISCLAIMER: This information is believed to be accurate and represents the best information				
		currently available to us. Howev	er, we make no warr	anty of merchantabili	ty 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 forma	