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2.3	Adverse Human HealthMaterial may be irritating to the mucous membranes and upper respiratory tract.Effects and Symptoms:May be harmful by inhalation, ingestion, or skin absorption.							
	Please refer to Section 7 for Storage and Section 13 for Disposal information.							
	GHS Storage and Disposal Phrases:							
	No phrases apply.	- - .						
	No phrases apply. GHS Response Phrase	NC '						
	GHS Precaution Phras	es:						
		currently available data this sub	stance or mixture is	not classifiable ad	ccording to GHS.			
	GHS Signal Word: None GHS Hazard Phrases:							
2.2	Label Elements:							
2.1	Classification of the Sub							
		Section 2. Ha	zards Identifi	cation				
	Emergency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887			
1.4	Emergency telephone nu							
	Information: Cayman Chemical Company			+1 (73	4)971-3335			
	Web site address:	Ann Arbor, MI 48108 www.caymanchem.com						
	Company Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd.	bany					
1.3	Details of the Supplier of	f the Safety Data Sheet:						
	Relevant identified uses: For research use only, not for human or veterinary use.							
1.2	eca[1,2-c:6,7-c']difuran-5,11,13,14(7H,10H)-tetrone; Relevant identified uses of the substance or mixture and uses advised against:							
	Synonyms:	(3aR,4S,9aS,10R)-rel-4,		-	,10:4,9a-dimethano-1H,3H-cyclo			
	Product Code: Product Name:	17530 Dibefurin						



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			Section 4	4. First Aid Measure	es			
4.1	Descrip	tion of First Aid						
	Measure	es:						
	In Case	of Inhalation:	Remove to fresh air. I	f not breathing, give artificial re	espiration or give oxygen by	trained personnel.		
			Get immediate medica	al attention.				
	In Case	of Skin Contact:	Immediately wash ski	n with soap and plenty of wate	r for at least 15 minutes. Rei	move contaminated		
			clothing. Get medical	attention if symptoms occur. W	lash clothing before reuse.			
	In Case	of Eye Contact:	Hold eyelids apart and	d flush eyes with plenty of wate	er for at least 15 minutes. Ha	ive eyes examined		
			and tested by medical	l personnel.				
	In Case	of Ingestion:		Wash out mouth with water provided person is conscious. Never give anything by mouth to an				
			-	Get medical attention. Do NOT	induce vomiting unless dire	cted to do so by		
			medical personnel.					
			Section 5.	Fire Fighting Meas	ures			
5.1	Suitable	Extinguishing	Use alcohol-resistant	foam, carbon dioxide, water, c	or dry chemical spray.			
	Media:		Use water spray to co	ool fire-exposed containers.				
	Unsuita	ble Extinguishing	g A solid water stream	may be inefficient.				
	Media:							
5.2	Flamma	ble Properties an	dNo data available.					
	Hazards	:						
			No data available.					
	Flash Pt	::	No data.					
	Explosiv	ve Limits:	LEL: No data.	UEL: No data				
	Autoign	ition Pt:	No data.					
5.3	Fire Fig	hting Instructions	s: As in any fire, wear se	elf-contained breathing appara	tus pressure-demand (NIOS	H approved or		
			equivalent), and full p	rotective gear to prevent conta	act with skin and eyes.			
			Section 6. Ac	cidental Release Me	easures			
6.1	Protecti	ve Precautions,	Avoid raising and bre	eathing dust, and provide adeq	uate ventilation.			
	Protecti	ve Equipment an		t, wear a NIOSH approved sel				
	Emerge	ncy Procedures:	and appropriate pers	onal protection (rubber boots,	safety goggles, and heavy ru	ubber gloves).		
6.2	Environ	mental	Take steps to avoid r	elease into the environment, if	safe to do so.			
	Precaut	ions:						
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 Stor	age			
7.1	Precaut	ions To Be Taken	Avoid breathing dust/	fume/gas/mist/vapours/spray.				
	in Hand	ling:	Avoid prolonged or re	epeated exposure.				
7.2	Precaut	ions To Be Taken	Keep container tightly	/ closed.				
	in Storir	ng:	Store in accordance v	with information listed on the p	roduct insert.			
		Sec	tion 8. Exposu	re Controls/Persona	al Protection			
8.1	Exposur	e Parameters:						
CAS #		Partial Chemical	l Name	Britain EH40	France VL	Europe		
	48-33-6	Dibefurin		No data.	No data.	No data.		
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Multi-region format



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CAS	#	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits
1754	48-33-6	Dibefurin		No data.	No data.	No data.
3.2	Exposur	e Controls:				
8.2.1	Enginee	ring Controls	Use process encl	osures, local exhaust vent	ilation, or other engineering o	ontrols to control airborr
	(Ventilat	ion etc.):	levels below reco	mmended exposure limits		
8.2.2	Persona	I protection equi	oment:			
	Eye Prot	ection:	Safety glasses			
	Protectiv	ve Gloves:	Compatible chem	ical-resistant gloves		
	Other Pr	otective Clothing	:Lab coat			
	Respirat	ory Equipment	NIOSH approved	respirator, as conditions v	varrant.	
	(Specify	Туре):				
	Work/Hy	gienic/Maintenan	Do not take interr	nally.		
	ce Pract	ices:	Facilities storing of	or utilizing this material she	ould be equipped with an eye	wash and a safety show
			Wash thoroughly	after handling.		
			No data available			
		S	ection 9. Ph	nysical and Cherr	nical Properties	
9.1	Informati		sical and Chemica	, ,	•	
·	Physical	-	[]Gas	[]Liquid [X]Solic	1	
	-	nce and Odor:	A crystalli			
	Melting		No data.			
	Boiling I		No data.			
	Flash Pt		No data.			
	Evapora	tion Rate:	No data.			
	-	bility (solid, gas):	No data a	vailable.		
		ve Limits:	LEL: No	data.	UEL: No data.	
	Vapor P	ressure (vs. Air o	r mm No data.			
	Hg):					
	Vapor D	ensity (vs. Air = 1): No data.			
	Specific	Gravity (Water =	1): No data.			
	Solubilit	y in Water:	No data.			
	Solubilit	y Notes:	~0.5 mg/n	nl in a 1:1 solution of DMS	O:PBS (pH 7.2); ~1 mg/ml in	DMSO;
	Autoigni	ition Pt:	No data.			
9.2	-	ormation				
	Percent		No data.			
		ar Formula & Wei		8 360.3		
			•	10. Stability and	Reactivity	
10.4	Deset	4		<u>,</u>	ποασιινιιγ	
10.1	Reactivit	-	No data available			
10.2	Stability Stability	: Note(s):		Stable [X]	ion listed on the product inse	rt
10.3	-				ion insted on the product insel	ι.
	Polymer		Will occur []	Will not occur [X]		
10.4		ons To Avoid:	No data available			
10.5	Incompatibility - Materials No data available.					
	To Avoid		N N N N N N N N N N			
10.6	Hazardo		No data available			
	Decomp	osition or				
						Multi-region form



SAFETY DATA SHEET Dibefurin

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.1 Information on The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Toxicological effects:							
CAS #	Hazardous Compone	nts (Chemical Name)	NTP	IARC	ACGIH	OSHA	
175448-33-6	Dibefurin		n.a.	n.a.	n.a.	n.a.	
		Section 12. Ecol	ogical Informa	ation			
12.1 Toxicity	/: Avoi	d release into the environ	ment.				
	Runoff from fire control or dilution water may cause pollution.						
		No data available.					
Degrad	-						
12.3 Bioaccu Potentia		ata available.					
		ata available.					
-	of PBT and vPvB No d						
assessi							
12.6 Other a	dverse effects: No d	ata available.					
	S	Section 13. Dispo	sal Considera	ations			
13.1 Waste I	Disposal Method: Disp	•					
		Section 14. Tra	nsport Informa	ation			
14.1 LAND	TRANSPORT (US DOT):						
		Not dangerous goods.					
DOT Haza		tot dallgorodo goodo.					
UN/NA Nu	mber:						
14.1 LAND	TRANSPORT (European	ADR/RID):					
ADR/RID S	Shipping Name:	Not dangerous goods.					
UN Numbe	er:						
Hazard Cla							
	ANSPORT (ICAO/IATA)						
		Not dangerous goods.					
Additional Tra	insport Tran	sport in accordance with	local, state, and fede	ral regulations.			
Information:				- ('			
		Section 15. Reg	<i>y</i>	au011			
EPA SARA (Su CAS #	uperfund Amendments Hazardous Compone		t of 1986) Lists S. 302 (EHS)	S. 304 RQ	S 31	3 (TRI)	
175448-33-6	Dibefurin		No	No	No	~ (1 \ 1)	
		nts (Chemical Name)	Other US EPA or	r State Lists	 		
CAS #	Hazardous Components (Chemical Name) Dibefurin		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA				
CAS # 175448-33-6	Dibefurin		PROP.65: No				



Regulatory Information	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)			
Statement:	No.1272/2008.			
	Section 16. Other Information			
Revision Date:	10/09/2015			
Additional Information 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.			