

SAFETY DATA SHEET Resibufogenin

Multi-region format

Revision: 10/30/2016

	accore	ding to Regulation (EC) No. 1907/2006 as amended by	(EC) No. 1272/2008				
	Section 1. Id	entification of the Substance/Mixture and of th	ne Company/Undertaking				
1.1	Product Code:	9001348					
	Product Name:	Resibufogenin					
	Synonyms:	(3.beta,5.beta.,15.beta.)-14,15-epoxy-3-hydrox	xy-bufa-20,22-dienolide; Bufogenin; NSC 90783;				
		Respigon;					
1.2	Relevant identified uses of t	he substance or mixture and uses advised ag	ainst:				
	Relevant identified uses:	For research use only, not for human or vetering	nary use.				
1.3	Details of the Supplier of the	e 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:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
2.2	Label Elements:						
	GHS Signal Word: Danger						
	GHS Hazard Phrases:	Danger					
	H300: Fatal if swallowed.						
	H310: Fatal in contact with skin.						
	H330: Fatal if inhaled.						
	GHS Precaution Phrases:						
	P260: Do not breathe {dust/fume/gas/mist/vapors/spray}.						
	P262: Do not get in eyes, on skin, or on clothing.						
	P264: Wash {hands} thoroughly after handling. P280: Wear {protective gloves/protective clothing/eye protection/face protection}.						
	P284: Wear respiratory protection {}.						
	GHS Response Phrases:						
	P301+310: IF SWALLOWED: P310: Immediately call a POISON CENTER or doctor/physician.						
	P302+352: IF ON SKIN: Wash with plenty of soap and water.						
		move victim to fresh air and keep at rest in a pos	ition comfortable for breathing.				
		urgent {see on this label}.					
	P330: Rinse mouth.	ately all contaminated clothing and wash it before					
	T JUTTJUH. TAKE UN INIMEUI	atory an contaminated clothing and wash it belore	- 16436.				
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CAS # / RTECS 465-3 El29750	6 # REA 19-4 Resib		ion 3. Composition	/Information				
465-3 465-3 129750	6 # REA 19-4 Resib	-			on Ingredie	nts		
129750			nponents (Chemical Name)/ ation No.	Concentration	EC No./ EC Index No.	GHS Classification		
.1		ufogenin		100.0 %	683-110-7 NA	Acute Tox.(O) 2: H300 Acute Tox.(D) 2: H310 Acute Tox.(I) 2: H330		
.1 1			Section 4. Fi	rst Aid Meas	ures			
I	Description o Measures: In Case of Inl		Remove to fresh air. If not bro	eathing, give artifici	al respiration or gi	ve oxygen by trained personnel		
			Get immediate medical attention. Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.					
			Section 5. Fire	Fighting Me	asures			
	Suitable Exti Media:	Suitable ExtinguishingUse alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.Idedia:Use water spray to cool fire-exposed containers.						
I	Media:		A solid water stream may be	inefficient.				
	Flammable P Hazards:	roperties an	d No data available. No data available.					
I	Flash Pt:		No data.					
I	Explosive Lir	nits:	LEL: No data.	UEL: No c	lata.			
	Autoignition	Pt:	No data.					
.3 I	Fire Fighting	Instructions	: As in any fire, wear self-cont equivalent), and full protectiv	• • • •	-			



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		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.):	evels below recommended exposure limits.
8.2.2	Personal protection equip	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 Physi	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.
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	Specific	Gravity (Water =	1): No data.							
	Solubility	/ in Water:	No data.							
	Solubility	/ Notes:	~0.5 mg/ml in	a 1:1 solution of DMI	E:PBS (pH 7	7.2); ~2 mg/ml	in EtOH; ~20	mg/ml in DMSO;		
			~25 mg/ml in [DMF;						
	Octanol/	Water Partition	No data.							
	Coefficie	nt:								
	Autoigni	tion Pt:	No data.							
	Decompo	osition Temperat	ure: No data.							
	Viscosity	<i>r</i> :	No data.							
9.2	Other Info	ormation								
	Percent	/olatile:	No data.							
	Molecula	r Formula & Weig	ght: C24H32O4	384.5						
			Section 10.	Stability and	Reactiv	/ity				
10.1	Reactivit	y:	No data available.							
10.2	Stability:		Unstable [] Stat	ole [X]						
10.3	Stability	Note(s):	Stable if stored in acc	ordance with informa	tion listed o	n the product	insert.			
	Polymeri	zation:	Will occur [] Wil							
10.4	Conditio	ns To Avoid:	No data available.							
10.5	Incompa	tibility - Materials	strong oxidizing agent	ts						
	To Avoid									
10.6	Hazardo	JS	carbon dioxide							
	Decompo	osition or	carbon monoxide							
	Byprodu	cts:								
			Section 11.	Toxicological	Informa	ition				
11.1	Informati	on on	The toxicological effect	•			udied			
		gical Effects:	Resibufogenin - Toxic	-				D50 (mouse): 14		
		grou incolor	mg/kg; Subcutaneous	-	-	J. J,				
	Chronic	Toxicological	Resibufogenin - Inves	tigated as a drug and	d natural pro	oduct.				
	Effects:	U	Only select Registry of		-		CS) data is pre	sented here.		
			See actual entry in RT	TECS for complete in	formation.					
			Resibufogenin RTECS Number: EI2975000							
CAS	#	Hazardous Com	ponents (Chemical Na	ame)	NTP	IARC	ACGIH	OSHA		
465	5-39-4	Resibufogenin			n.a.	n.a.	n.a.	n.a.		
		_	Section 12	. Ecological Ir	formati	 on	ļ	ļ		
12.1	Toxicity:		Avoid release into the							
12.1	TOXICITY.		Runoff from fire contro		av cause po	ollution				
12.2	Persister	nce and	No data available.		.,					
12.2	Degradal									
12.3	Bioaccur	-	No data available.							
12.5	Potential									
12.4			No data available.							
	Mobility i									
12.5	assessm		No data available.							
126			No data available.							
12.6	Other ad	verse effects:	ino uala avallable.							
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		Section 13. Dispo	sal Considera	itions	
3.1 Waste I	Disposal Method:	Dispose in accordance with loo	cal, state, and federal	regulations.	
		Section 14. Trar	nsport Informa	ation	
14.1 LAND	FRANSPORT (US	DOT):			
DOT Prope	er Shipping Name	: Toxic solids, organic, n.o.s	s. (Resibufogenin)		
DOT Hazard Class:		6.1 POISON			
UN/NA Number:		UN2811	Packing Group:		II
		POISON 6			
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):			
ADR/RID S	Shipping Name:	Toxic solids, organic, n.o.s	s. (Resibufogenin)		
UN Numbe	er:	2811	Packing Gro	oup:	II
Hazard Cla	ass:	6.1 - POISON			
14.3 AIR TR	ANSPORT (ICAO	IATA):			
ICAO/IATA	Shipping Name:	Toxic solids, organic, n.o.s. (Resibufogenin)			
UN Numbe		2811	-	Packing Group:	
Hazard Cla		6.1 - POISON	IATA Classification: 6.1		
Additional Tra		Transport in accordance with When sold in quantities of less E1, E2, E4, or E5, this item m Therefore packaging does not	s than or equal to 1 m eets the De Minimis C have to be labeled a	L, or 1 g, with an E Quantities exemptions S Dangerous Good	on, per IATA 2.6.10.
		Section 15. Regu	latory Informa	ation	
EPA SARA (Si	uperfund Amendr	nents and Reauthorization Act	t of 1986) Lists		
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
465-39-4	Resibufogenin		No	No	No
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists	
465-39-4	Resibufogenin		CAA HAP,ODC: I PROP.65: No	No; CWA NPDES	: No; TSCA: No; CA
Regulatory Info 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:		10/30/2016			
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 ct to such information	ranty of merchanta , and we assume r	ability or any other warrant no liability resulting from its
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