

SAFETY DATA SHEET Nigericin (sodium salt)

Page: 1 of 5

Revision: 10/22/2018 Supersedes Revision: 10/03/2014

	CHEMICAL		Supersedes Revision: 10/03/2014					
		o Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830						
	Section 1. Ide	entification of the Substance/Mixture and of th	e Company/Undertaking					
1.1	Product Code:	11437						
	Product Name:	Nigericin (sodium salt)						
	Synonyms:	(2R)-2-((2R,3S,6R)-6-(((2R,4R,5R,7R,9R,10R)	-2-((2S,3'S,5R,5'R)-5'-((2S,3S,5R,6R)-6-hydrox					
	6-(hydroxymethyl)-3,5-dimethyltetrahydro-2H-pyran-2-yl)-2,3'-dimethyloctahydro-[2,2'-bifu							
	yl)-9-methoxy-2,4,10-trimethyl-1,6-dioxaspiro[4.5]decan-7-yl)methyl)-3-methyltetrahydro							
		n-2-yl)propanoate, monosodium salt; NSC 292	567;					
1.2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses:	For research use only, not for human or veterin	ary use.					
1.3	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:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Section 2. Hazards Identifica	ation					
2.1	Classification of the Substance or Mixture:							
	Classification of the Substance of Mixture: Acute Toxicity: Oral, Category 3							
	Skin Corrosion/Irritation, Category 2							
	Serious Eye Damage/Eye Irritation, Category 2A Specific Target Organ Toxicity (single exposure), Category 3							
2.2	Label Elements:							
	GHS Signal Word:	Danger						
	GHS Hazard Phrases:							
	H301: Toxic if swallowed.							
	H315: Causes skin irritation.							
	H319: Causes serious eye irritation.							
	H335: May cause respiratory irritation.							
	GHS Precaution Phrases:							
	P264: Wash {hands} thoroughly after handling.							
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.							
	P362+364: Take off contaminated clothing and wash it before reuse.							
	P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.							
	GHS Response Phrases:							
	P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.							
	P330: Rinse mouth.							
	P302+352: IF ON SKIN: Wa	sh with plenty of soap and water.						
	P332+313: If skin irritation o	ccurs, get medical advice/attention.						
	P305+351+338: IF IN EYES	: Rinse cautiously with water for several minutes.	Remove contact lenses, if present and easy					
			Markit was stars for such					



SAFETY DATA SHEET Nigericin (sodium salt)

Revision: 10/22/2018 Supersedes Revision: 10/03/2014

		Continue rinsing.								
		-	n persists, get medical advice/a							
		P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.								
	P312: Call a {POISON CENTER/doctor/} if you feel unwell.									
	GHS Storage and Disposal Phrases:									
	Please	ease refer to Section 7 for Storage and Section 13 for Disposal information.								
2.3	Advers	e Human Health								
	Effects	and Symptoms:								
			Material may be irritating to the	ne mucous membran	es and upper res	spiratory tract.				
			May be harmful by inhalation or skin absorption.							
			May cause respiratory irritation. Toxic if swallowed.							
			To the best of our knowledge	, the toxicological pro	operties have not	been thoroughly investigated.				
		Sect	tion 3. Composition	/Information of	on Ingredie	nts				
CAS	#/	Hazardous Comp	oonents (Chemical Name)/	Concentration	EC No./	GHS Classification				
RTEC	CS #	REACH Registrat	tion No.		EC Index No.					
2864	3-80-3	Nigericin, sodium sa	lt (1:1)	100.0 %	608-231-4	Acute Tox.(O) 3: H301				
QT684	40000				NA	Skin Corr. 2: H315				
						Eye Damage 2A: H319				
						STOT (SE) 3: H335 H336				
			Section 4. Fi	rst Aid Measu	res					
4.1	Descrip	otion of First Aid								
	Measur	'es:								
	In Case	of Inhalation:	Remove to fresh air. If not bre	eathing, give artificial	respiration or give	ve oxygen by trained personnel.				
			Get immediate medical attent	ion.						
	In Case	of Skin Contact:	Immediately wash skin with s	oap and plenty of wa	ter for at least 15	minutes. Remove contaminated				
			clothing. Get medical attention	n if symptoms occur.	Wash clothing b	efore reuse.				
	In Case	of Eye Contact:	Hold eyelids apart and flush e	eyes with plenty of wa	ater for at least 1	5 minutes. Have eyes examined				
			and tested by medical person	nel.						
	In Case of Ingestion:		Wash out mouth with water provided person is conscious. Never give anything by mouth to an							
			unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by							
			medical personnel.							
			Section 5. Fire	Fighting Mea	sures					
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water	, or dry chemical	spray.				
Media: Use water spray to cool fire-exposed containers.										
		able Extinguishing	A solid water stream may be							
	Media:	sie Extragalering								
5.2		able Pronerties an	d No data available.							
0.2	Hazard	-								
	Tuzuru	0.	No data available.							
	Flash F)+-	No data.							
					ta					
	-	ive Limits:	LEL: No data.	UEL: No da	la.					
	-	nition Pt:	No data.							
5.3	Fire Fig	phting Instructions	: As in any fire, wear self-conta		-					
			equivalent), and full protective	e gear to prevent cor	ntact with skin an	d eyes.				
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SAFETY DATA SHEET Nigericin (sodium salt)

Revision: 10/22/2018 Supersedes Revision: 10/03/2014

L	S	ection 6. Accidental Release Measures				
6.1		void raising and breathing dust, and provide adequate ventilation.				
		s conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,				
	Emergency Procedures: a	nd appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).				
6.2	Environmental T	ake 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.					
	-	ransfer 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	void breathing dust/fume/gas/mist/vapours/spray.				
	in Handling: Av	void prolonged or repeated exposure.				
7.2	Precautions To Be Taken Ke	eep container tightly closed.				
	in Storing: St	tore in accordance with information listed on the product insert.				
	Sectio	n 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1	Engineering Controls	se process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.): le	vels below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	Eye Protection: Sa	Safety glasses				
	Protective Gloves: C	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.					
		acilities storing or utilizing this material should be equipped with an eyewash and a safety shower				
		/ash thoroughly after handling.				
	N	o data available.				
	Sec	tion 9. Physical and Chemical Properties				
9.1	Information on Basic Physica	-				
	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. No data.				
	Evaporation Rate:	No data available.				
	Flammability (solid, gas): Explosive Limits:	LEL: No data. UEL: No data.				
	Vapor Pressure (vs. Air or m					
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
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SAFETY DATA SHEET Nigericin (sodium salt)

Page: 4 of 5

							•			
	-	Gravity (Water =	-	No data.						
	-	/ in Water:		No data.						
	Solubility	/ Notes:		~0.15 mg/ml in a 1:5 solution of EtC DMF;	DH:PBS (pH 7	7.2); ~20 mg	/ml in EtOH; ~	1.2 mg/ml in		
	Octanol	Water Partition		No data.						
	Coefficie			No dala.						
	Autoigni			No data.						
	-	osition Temperate		No data.						
	Viscosity			No data.						
9.2	Other Info									
	Percent V			No data.						
	Molecula	r Formula & Weig	ght:	C40H67O11 • Na 747.0						
			Se	ection 10. Stability and	Reactivit	ty				
10.1	Reactivit	y:	No data	a available.						
10.2	Stability:		Unstabl	ble [] Stable [X]						
10.3	Stability	Note(s):	Stable i	if stored in accordance with informa	tion listed on	the product i	insert.			
	Polymeri	zation:	Will occ	cur [] Will not occur [X]						
10.4	Conditio	ns To Avoid:	No data	a available.						
10.5	Incompa	tibility - Materials	strong a	acids						
	To Avoid	:	strong b	bases						
10.6	Hazardo	JS	carbon	dioxide						
	Decompo	osition or	carbon	monoxide						
	Byprodu	cts:	sodium	oxides						
			Sec	ction 11. Toxicological	Informati	on				
11.1	Informati	on on	The tox	kicological effects of this product have	ve not been th	oroughly stu	udied.			
	Toxicolo	gical Effects:		in (sodium salt) - Toxicity Data: Intra		• •				
		- Toxicological	Nigerici	in (sodium salt) - Investigated as a r	eproductive e	effector.				
	Effects:	5	•	elect Registry of Toxic Effects of Che	•		S) data is pre	sented here.		
			-	tual entry in RTECS for complete int		,	, .			
			Nigerici	in (sodium salt) RTECS Number: Q	T6840000					
CAS	#	Hazardous Com	ponents	s (Chemical Name)	NTP	IARC	ACGIH	OSHA		
2864	13-80-3	Nigericin, sodium	salt (1:1)	n.a.	n.a.	n.a.	n.a.		
			S	ection 12. Ecological In	formatio	n	1			
12.1	Toxicity:			elease into the environment.						
	l'oxiony.			off from fire control or dilution water may cause pollution.						
12.2				data available.						
12.2	Degradal		NO Gala							
12.2	-	-	No dote	a available						
12.3	.3 Bioaccumulative No da Potential:			a available.						
12.4	Mobility in Soil:		No data	o data available.						
12.5	Results o	of PBT and vPvB	No data	a available.						
	assessment:									
12.6	Other ad	verse effects:	No data	a available.						
							Μ	ulti-region format		



SAFETY DATA SHEET Nigericin (sodium salt)

Revision: 10/22/2018 Supersedes Revision: 10/03/2014

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		Section 13. Dispo	sal Considera	tions			
3.1 Waste I	Disposal Method:	Dispose in accordance with loc	cal, state, and federal	regulations.			
		Section 14. Trar	nsport Informa	tion			
14.1 LAND	TRANSPORT (US	DOT):					
DOT Prop	er Shipping Name	: Toxins, extracted from livir	ng sources, solid, n.o.s	s. (Nigericin, mono	osodium salt)		
DOT Haza	rd Class:	6.1 POISON					
UN/NA Number:		UN3462 Packing Group:		III			
		POISON 6					
	TRANSPORT (Eur						
ADR/RID S	Shipping Name:	Toxins, extracted from living sources, solid, n.o.s. (Nigericin, monosodium salt)					
UN Numbe		3462	Packing Gro	up:	111		
Hazard Cla		6.1 - POISON					
14.3 AIR TR	ANSPORT (ICAO/	IATA):					
ICAO/IATA	A Shipping Name:	Toxins, extracted from living	ng sources, solid, n.o.s	s. (Nigericin, mono	osodium salt)		
UN Numbe	er:	3462	Packing Gro	up:	III		
Hazard Cla	ass:	6.1 - POISON	IATA Classif	ication:	6.1		
Additional Tra	insport	Transport in accordance with I	ocal, state, and federa	al regulations.			
Information:		When sold in quantities of less	than or equal to 1 mL	., or 1 g, with an E	xcepted Quantity Code of		
		E1, E2, E4, or E5, this item me		-	-		
		Therefore packaging does not	have to be labeled as	Dangerous Good	s/Excepted Quantity.		
		Section 15. Regu	latory Informa	tion			
EPA SARA (S	uperfund Amendr	nents and Reauthorization Act	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
28643-80-3	Nigericin, sodium	n salt (1:1)	No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
28643-80-3	Nigericin, sodium	n salt (1:1)	CAA HAP,ODC: N PROP.65: No	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Inf	ormation	This SDS was prepared in acc	ordance with 29 CFR	1910.1200 and Re	egulation (EC)		
Statement:		No.1272/2008.					
		Section 16. Ot	her Informatio	n			
Revision Date:	:	10/22/2018					
	ormation About	No data available.					
This Product:							
	cy or Disclaimer	DISCI AIMER: This information	n is helieved to be acc	urate and represe	nts the best information		
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 respec		-			
		use. Users should make their own investigations to determine the suitability of the information for					
		their particular purposes.					
					Multi-region for		