

SAFETY DATA SHEET Ranitidine-d6 (hydrochloride)

Revision: 08/03/2018

.1	Product	Code:	22583					
	Product	Name:	Ranitidine-d6 (hydrochloride)					
	Synony	ms:	(E)-N-(2-(((5-((bis(methyl-d3)amin	o)methyl)fur	an-2-yl)methyl)th	nio)ethyl)-N'-methyl-2-nitroethe		
			1,1-diamine, monohydrochloride;					
.2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses: For research use only, not for human or veterinary use.							
.3	Details	of the Supplier of the	Safety Data Sheet:					
	Comp	any Name:	Cayman Chemical Company					
			1180 E. Ellsworth Rd. Ann Arbor, MI 48108					
	Web s	ite address:	www.caymanchem.com					
	Inform		Cayman Chemical Company		+1 (734)971-3335			
.4	Emerge	ncy telephone numb			, , , , , , , , , , , , , , , , , , ,	,		
	-	jency Contact:	CHEMTREC Within USA and Car	nada:	+1 (80	+1 (800)424-9300		
	-	-	CHEMTREC Outside USA and Ca	anada:	+1 (70	3)527-3887		
			Section 2. Hazards	Identific	ation			
	Classifi	action of the Substan						
1	Classification of the Substance or Mixture: Label Elements:							
			ice or mixture:					
	Label El	lements:						
	Label El GHS S	lements: Signal Word:	None					
	Label El GHS S GHS H	lements: Signal Word: Hazard Phrases:	None	mixture is r	ot classifiable ac	cording to GHS		
	Label El GHS S GHS H Based	lements: Signal Word: Hazard Phrases: I on evaluation of curre		⁻ mixture is r	ot classifiable ac	ccording to GHS.		
	Label El GHS S GHS H Based GHS F	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases:	None	⁻ mixture is n	ot classifiable ac	cording to GHS.		
	Label El GHS S GHS H Based GHS F No ph	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply.	None	⁻ mixture is r	ot classifiable ac	cording to GHS.		
	Label El GHS S GHS H Based GHS F No phi GHS F	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases:	None	⁻ mixture is r	ot classifiable ac	cording to GHS.		
	Label El GHS S GHS H Based GHS F No phi GHS F	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases:	None Intly available data this substance or	⁻ mixture is r	ot classifiable ac	cording to GHS.		
	Label El GHS S GHS H Based GHS F No phi GHS S	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal	None Intly available data this substance or			ccording to GHS.		
2.2	Label El GHS S GHS H Based GHS F No phi GHS S Please	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for	None ently available data this substance or Phrases:	l information				
2.2	Label El GHS S GHS H Based GHS F No phi GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for e Human Health M	None ently available data this substance of Phrases: Storage and Section 13 for Disposa	l information us membran	es and upper res			
2	Label El GHS S GHS H Based GHS F No phi GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for e Human Health M and Symptoms: M	None ently available data this substance of Phrases: Storage and Section 13 for Disposa aterial may be irritating to the mucor ay be harmful by inhalation, ingestic ay cause eye, skin, or respiratory sy	l information us membran on, or skin ab rstem irritatio	es and upper res psorption. on.	spiratory tract.		
2.2	Label El GHS S GHS H Based GHS F No phi GHS S Please Advers	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for e Human Health M and Symptoms: M	None ently available data this substance of Phrases: Storage and Section 13 for Disposa aterial may be irritating to the mucor ay be harmful by inhalation, ingestic	l information us membran on, or skin ab rstem irritatio	es and upper res psorption. on.	spiratory tract.		
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2.1 2.2 2.3 CAS	Label El GHS S GHS H Based GHS F No phi GHS S Please Advers Effects	lements: Signal Word: Hazard Phrases: I on evaluation of curre Precaution Phrases: rases apply. Response Phrases: rases apply. Storage and Disposal e refer to Section 7 for e Human Health M and Symptoms: M M The Sectio	None ently available data this substance of Phrases: Storage and Section 13 for Disposa aterial may be irritating to the mucor ay be harmful by inhalation, ingestic ay cause eye, skin, or respiratory sy to the best of our knowledge, the toxi n 3. Composition/Inform ents (Chemical Name)/ Concer	l information us membran on, or skin ab rstem irritatio cological pro	es and upper res osorption. on. operties have not	spiratory tract. t been thoroughly investigated		

Multi-region format



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		Section 4. First Aid Measures					
4.1	Description of First Aid						
	Measures:						
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.					
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.					
	In Case of Eye Contact:	Hold eyelids apart and flush 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 unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.					
		Section 5. Fire Fighting Measures					
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.					
	Media:	Use water spray to cool fire-exposed containers.					
		g A solid water stream may be inefficient.					
5.2	Media:						
5.2	Flammable Properties an Hazards:						
		No data available.					
	Flash Pt:	No data.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Autoignition Pt:	No data.					
5.3	Fire Fighting Instructions	s: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.					
		Section 6. Accidental Release Measures					
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.					
	Protective Equipment an	d 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 Precautions:	Take steps to avoid release into the environment, if safe to do so.					
6.3		r Contain spill and collect, as appropriate.					
	Containment and Cleanir	ngTransfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:						
		Section 7. Handling and Storage					
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.					
	in Handling:	Avoid prolonged or repeated exposure.					
7.2	Precautions To Be Taker	NKeep container tightly closed.					
	in Storing:	Store in accordance with information listed on the product insert.					
	Sec	tion 8. Exposure Controls/Personal Protection					
8.1	Exposure Parameters:						

Multi-region format



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	HEMICAL							
8.2	Exposure Controls:							
8.2.1	1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airbo							
	(Ventilation etc.):	levels below recommended exposure limits.						
8.2.2	Personal protection equipment:							
	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	ection 9. Physical and Chemical Properties						
9.1	Information on Basic Physi	ical and Chemical Properties						
	Physical States:	[]Gas []Liquid [X]Solid						
	Appearance and Odor:	A 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.						
	Specific Gravity (Water = 1): No data.						
	Solubility in Water:	No data.						
	Solubility Notes:	~1 mg/ml in DMSO;						
	Octanol/Water Partition	No data.						
	Coefficient:							
	Autoignition Pt:	No data.						
	Decomposition Temperatu							
	Viscosity:	No data.						
9.2	Other Information							
	Percent Volatile:	No data.						
	Molecular Formula & Weig	ht: C13H16D6N4O3S • HCI 356.9						
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			Secti	on 10. Stability and	Reactiv	ity			
10.1	0.1 Reactivity: No data available.								
10.2	Stability: Unstable [] Stable [X]								
10.3	Stability Note(s): Stable if stored in accordance with information listed on the product insert.								
	Polymerization: Will occur [] Will not occur [X]								
10.4									
10.5									
	To Avoid	1:							
10.6	Hazardo	us	carbon dioxi	de					
	Decomp	osition or	carbon monoxide						
Byproducts:			hydrogen su	lfide					
			nitrogen oxid	des					
	phosgene								
			Sectio	n 11. Toxicological	Informat	tion			
11.1	Informat	ion on	The toxicolo	gical effects of this product ha	ve not been t	thoroughly st	udied.		
	Toxicolo	gical Effects:							
Carci	nogenicity	/:	NTP? No	IARC Monographs? No	OSHA Reg	ulated? No			
CAS	#	Hazardous Com	ponents (Ch	emical Name)	NTP	IARC	ACGIH	OSHA	
1185	238-09-8	Ranitidine-d6 (hy	drochloride)		n.a.	n.a.	n.a.	n.a.	
		ł	Sect	ion 12. Ecological Ir	formatio	 on			
12.1	Toxicity			e into the environment.					
	. exiety		Runoff from fire control or dilution water may cause pollution.						
12.2	Persiste	nce and	No data available.						
	Degrada								
12.3	Bioaccu		No data ava	ilable.					
	Potentia								
12.4	Mobility	in Soil:	No data ava	ilable.					
12.5									
	2.5 Results of PBT and vPvB No data available. assessment:								
12.6									
	Section 13. Disposal Considerations								
				•					
13.1	waste D	isposal Method:	-	accordance with local, state, ar					
			Sec	tion 14. Transport li	nformatio	on			
14.1	LAND T	RANSPORT (US I	DOT):						
	OT Prope	r Shipping Name	: Not dan	gerous goods.					
	OT Hazaro	d Class:							
U U	JN/NA Nun	nber:							
14.1	LAND T	RANSPORT (Euro	opean ADR/F	RID):					
A	DR/RID SI	hipping Name:	Not dan	gerous goods.					
U U	JN Number	r:							
H	lazard Cla	SS:							
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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Not dangerous goods. Transport in accordance with local, state, and federal regulations.

Additional Transport Information:

Section 15. Regulatory Information

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
1185238-09-8	Ranitidine-d6 (hydrochloride)		No	No	No		
CAS #	Hazardous Components (Chemical Name)		Other US EPA or	Other US EPA or State Lists			
1185238-09-8	Ranitidine-d6 (hy	drochloride)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Info Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)		
		Section 16. Ot	her Informatio	on			
Revision Date:		08/03/2018					
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.					