

Revision: 01/06/2017 Supersedes Revision: 06/20/2016

		accord	ling to Regulation (EC) No. 190)7/2006 as amended b	y (EC) No. 1272/200	18				
			entification of the Substar							
.1	Produc	t Code:	19645		J. J. J. J. J.	5				
		t Name:	Bepridil (hydrochloride)							
	Synony	/ms:	.beta[(2-methylpropoxy])methyl]-N-phenyl-N	I-(phenylmethyl)-1	-pyrrolidineethanamine,				
	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	oany Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	pany						
	Web s	site address:	www.caymanchem.com							
	Inform	nation:	Cayman Chemical Comp	bany	+1 (73	4)971-3335				
1.4	Emerge	ency telephone numb	er:							
	Emer	gency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300				
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887				
			Section 2. Ha	zards Identifi	cation					
2.1	Classifi	ication of the Substar	nce or Mixture:							
2.2	Label E	lements:		Label Elements:						
	GHS Signal Word: None									
	GHS	Signal Word:	None							
		Signal Word: Hazard Phrases:	None							
	GHS	Hazard Phrases:	None ently available data this sub-	stance or mixture is	not classifiable ad	cording to GHS.				
	GHS Based	Hazard Phrases:		stance or mixture is	not classifiable ac	cording to GHS.				
	GHS Based GHS	Hazard Phrases: d on evaluation of curre		stance or mixture is	not classifiable ac	cording to GHS.				
	GHS Based GHS No ph	Hazard Phrases: d on evaluation of curre Precaution Phrases:		stance or mixture is	not classifiable ac	cording to GHS.				
	GHS Based GHS No ph GHS	Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply.		stance or mixture is	not classifiable ac	cording to GHS.				
	GHS Based GHS No ph GHS No ph	Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply. Response Phrases:	ently available data this sub	stance or mixture is	not classifiable ac	cording to GHS.				
	GHS Based GHS No ph GHS No ph GHS	Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply. Response Phrases: mases apply. Storage and Disposal e refer to Section 7 for	ently available data this sub I Phrases: Storage and Section 13 for	Disposal informatic	on.	-				
2.3	GHS Based GHS No ph GHS O ph GHS Pleas Advers	Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply. Response Phrases: mases apply. Storage and Disposa e refer to Section 7 for se Human Health	ently available data this sub I Phrases: Storage and Section 13 for laterial may be irritating to t	[.] Disposal informatic he mucous membra	on. ines and upper res	-				
2.3	GHS Based GHS No ph GHS O ph GHS Pleas Advers	Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply. Response Phrases: mases apply. Storage and Disposa e refer to Section 7 for se Human Health M s and Symptoms: M	ently available data this sub I Phrases: Storage and Section 13 for laterial may be irritating to t lay be harmful by inhalation	[.] Disposal informatio he mucous membra i, ingestion, or skin a	on. ines and upper res	-				
2.3	GHS Based GHS No ph GHS O ph GHS Pleas Advers	Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply. Response Phrases: mases apply. Storage and Disposate e refer to Section 7 for se Human Health Mas and Symptoms: Mas	ently available data this sub I Phrases: Storage and Section 13 for laterial may be irritating to t lay be harmful by inhalation lay cause eye, skin, or resp	Disposal information he mucous membra n, ingestion, or skin a iratory system irritat	on. ines and upper res absorption. tion.	spiratory tract.				
2.3	GHS Based GHS No ph GHS O ph GHS Pleas Advers	Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply. Response Phrases: mases apply. Storage and Disposal e refer to Section 7 for se Human Health M s and Symptoms: M T	ently available data this sub I Phrases: Storage and Section 13 for laterial may be irritating to t lay be harmful by inhalation lay cause eye, skin, or resp o the best of our knowledge	Disposal information he mucous membra n, ingestion, or skin a iratory system irritat e, the toxicological p	on. Ines and upper res absorption. tion. roperties have not	piratory tract.				
	GHS Based GHS No ph GHS Pleas Advers Effects	Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply. Response Phrases: mases apply. Storage and Disposa e refer to Section 7 for se Human Health M s and Symptoms: M T Sectio	ently available data this sub I Phrases: Storage and Section 13 for faterial may be irritating to t fay be harmful by inhalation fay cause eye, skin, or resp to the best of our knowledge	Disposal information he mucous membra i, ingestion, or skin a iratory system irritat a, the toxicological p /Information	on. Ines and upper res absorption. tion. roperties have not on Ingredie	piratory tract. been thoroughly investigate				
CAS	GHS Based GHS No ph GHS Pleas Advers Effects	Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply. Response Phrases: mases apply. Storage and Disposa e refer to Section 7 for se Human Health M s and Symptoms: M T Sectio	I Phrases: Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp to the best of our knowledge on 3. Composition	Disposal information he mucous membra n, ingestion, or skin a iratory system irritat e, the toxicological p	on. Ines and upper res absorption. tion. roperties have not	piratory tract.				
CAS	GHS Based GHS No ph GHS Pleas Advers Effects	Hazard Phrases: d on evaluation of curre Precaution Phrases: mases apply. Response Phrases: mases apply. Storage and Disposa e refer to Section 7 for se Human Health M s and Symptoms: M T Sectio Hazardous Compor REACH Registration	I Phrases: Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp to the best of our knowledge on 3. Composition	Disposal information he mucous membra i, ingestion, or skin a iratory system irritat a, the toxicological p /Information	on. Ines and upper res absorption. tion. roperties have not ON INGREDIE	piratory tract. been thoroughly investigate				

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.
	Unsuitable Extinguishing Media:	g A solid water stream may be inefficient.
5.2	Flammable Properties ar Hazards:	I d No data available.
		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 raising and breathing dust, 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 Cleaniı Up:	hgTransfer to a chemical waste container for disposal in accordance with local regulations.
		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



	-						
8.2	Exposure Controls:						
8.2.1		Use 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: S	y 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: Fa	acilities storing or utilizing this material should be equipped with an eyewash and a safety shower.					
	W	h thoroughly after handling.					
	No data available.						
	Sec	tion 9. Physical and Chemical Properties					
9.1	Information on Basic Physical 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 m	nm No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1):	No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~0.3 mg/ml in a 1:2 soultion of EtOH:PBS (pH 7.2); ~25 mg/ml in EtOH; ~5 mg/ml in DMSO; ~20 mg/ml in DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperature	No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weigh						



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0.2			Section 10. Stability and	Reactiv	/ity			
10.2	Reactivi	ty:	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.					insert.			
	Polymer	ization:	Will occur [] Will not occur [X]					
10.4	Conditio	Conditions To Avoid: No data available.						
10.5	Incompa	atibility - Materials	strong acids					
	To Avoid:		strong bases					
			strong oxidizing agents					
			strong reducing agents					
10.6	Hazardo	ous	No data available.					
	Decomposition or							
	Byprodu	icts:						
			Section 11. Toxicological	Informa	ition			
11.1	Informat	tion on	The toxicological effects of this product have					
	Toxicolo	ogical Effects:	Bepridil (hydrochloride) - Toxicity Data: Ora	al LD50 (rat): 6850 mg/kg	; Oral LD50 (m	nouse): 2069	
			mg/kg;					
		Toxicological	Bepridil (hydrochloride) - Investigated as a	-	-		,	
	Effects:		Only select Registry of Toxic Effects of Che		stances (RTE	CS) data is pre	sented here	
			See actual entry in RTECS for complete in Bepridil (hydrochloride) RTECS Number: U					
CAS #	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
			2-methylpropoxy)methyl]-N-phenylpyrrolidi	n.a.	n.a.	n.a.	n.a.	
0003	/9-00-0	1	nonohydrochloride	11.a.	11.a.	n.a.	n.a.	
		•	Section 12. Ecological In	formati	on	•	·	
12.1	Toxicity	:	Avoid release into the environment.					
			Runoff from fire control or dilution water ma	ay cause po	ollution.			
12.2	Persiste	nce and	No data available.					
	Degrada	bility:						
12.3	Bioaccu	mulative	No data available.					
	Potentia	ıl:						
	Mobility	in Soil:	No data available.					
12.4	-		No data available.					
	assessn	nent:						
12.4 12.5 12.6		nent: Iverse effects:	No data available.					
12.5			No data available. Section 13. Disposal Con	siderati	ons			



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RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Fur		sport Informa	ation		
r Shipping Name: d Class: nber:					
d Class: nber:	Not dangerous goods.				
KANSPORT (EUR	opean ADR/RID):				
hipping Name:	Not dangerous goods.				
r: ss:					
ANSPORT (ICAO/I	IATA):				
Shipping Name:	Not dangerous goods.				
nsport	Transport in accordance with loc	cal, state, and fede	ral regulations.		
	0	,	ation		
- -		-			
				S. 313 (TRI)	
				No	
	· · · ·	Other US EPA or State Lists			
		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
	Section 16. Oth	er Informatio	on		
	01/06/2017				
mation About	No data available.				
y or Disclaimer:	currently available to us. However express or implied, with respect	er, we make no wa to such informatior	rranty of merchant	ability or any other warrant no liability resulting from its	
	ss: ANSPORT (ICAO/ Shipping Name: nsport perfund Amendm Hazardous Com N-Benzylbeta[nylpyrrolidine-1-e Hazardous Com N-Benzylbeta[ss: ANSPORT (ICAO/IATA): Shipping Name: Not dangerous goods. Transport in accordance with loc Section 15. Regula perfund Amendments and Reauthorization Act of Hazardous Components (Chemical Name) N-Benzylbeta[(2-methylpropoxy)methyl]-N-phe nylpyrrolidine-1-ethylamine monohydrochloride Hazardous Components (Chemical Name) N-Benzylbeta[(2-methylpropoxy)methyl]-N-phe nylpyrrolidine-1-ethylamine monohydrochloride This SDS was prepared in accor No.1272/2008. Section 16. Oth 01/06/2017 rmation About No data available. y or Disclaimer: DISCLAIMER: This information i currently available to us. However express or implied, with respect use. Users should make their or	ss: ANSPORT (ICAO/IATA): Shipping Name: Not dangerous goods. Insport Transport in accordance with local, state, and fede Section 15. Regulatory Information perfund Amendments and Reauthorization Act of 1986) Lists Hazardous Components (Chemical Name) S. 302 (EHS) N-Benzylbeta[(2-methylpropoxy)methyl]-N-phe nylpyrrolidine-1-ethylamine monohydrochloride Hazardous Components (Chemical Name) Other US EPA of N-Benzylbeta[(2-methylpropoxy)methyl]-N-phe nylpyrrolidine-1-ethylamine monohydrochloride N-Benzylbeta[(2-methylpropoxy)methyl]-N-phe nylpyrrolidine-1-ethylamine monohydrochloride N-Benzylbeta[(2-methylpropoxy)methyl]-N-phe nylpyrrolidine-1-ethylamine monohydrochloride No.1272/2008. Section 16. Other Information O1/06/2017 rmation About No data available. y or Disclaimer: DISCLAIMER: This information is believed to be ac currently available to us. However, we make no wa express or implied, with respect to such information use. Users should make their own investigations to	ss: ANSPORT (ICAO/IATA): Shipping Name: Not dangerous goods. Insport Transport in accordance with local, state, and federal regulations. Section 15. Regulatory Information perfund Amendments and Reauthorization Act of 1986) Lists Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ N-Benzylbeta[(2-methylpropoxy)methyl]-N-phe nylpyrrolidine-1-ethylamine monohydrochloride No No No No Hazardous Components (Chemical Name) Other US EPA or State Lists N-Benzylbeta[(2-methylpropoxy)methyl]-N-phe nylpyrrolidine-1-ethylamine monohydrochloride CAA HAP,ODC: No; CWA NPDES N-Benzylbeta[(2-methylpropoxy)methyl]-N-phe nylpyrrolidine-1-ethylamine monohydrochloride PROP.65: No This SDS was prepared in accordance with 29 CFR 1910.1200 and R No.1272/2008. Section 16. Other Information 01/06/2017 mation About No data available. y or Disclaimer: DISCLAIMER: This information is believed to be accurate and represe currently available to us. However, we make no warranty of merchant express or implied, with respect to such information, and we assume to use. Users should make their own investigations to determine the suit	