

Revision: 10/09/2015

		ecor	entification of the Substance	e/Muxture and of t	he Company/Lu	ndertaking	
						Indertaking	
1.1							
	Product Name:		Empagliflozin	$a_{1} = 2 [[4] [[(28)] to$	trabudra 2 furanu	(lovulphonyllmothyllphonyll D	
	Synonyms: (1S)-1,5-anhydro-1-C-[4-chloro-3-[[4-[[(3S)-tetrahydro-3-furanyl]oxy]phenyl]methyl]phenyl] citol; BI 10773;						
1.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant iden	tified uses:	For research use only, not	for human or veter	inary use.		
1.3	Details of the Supplier of the Safety Data Sheet:						
	Company Nar	ne:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108				
	Web site addr	ess:	www.caymanchem.com				
	Information:		Cayman Chemical Compar	ny	+1 (734	4)971-3335	
1.4	Emergency tele	phone numb	er:				
	Emergency C	ontact:	CHEMTREC Within USA a			0)424-9300	
			CHEMTREC Outside USA	and Canada:	+1 (70	3)527-3887	
			Section 2. Haza	ards Identific	cation		
2.1	Classification o			ards Identific	cation		
2.1 2.2	Label Elements	:	nce or Mixture:	ards Identific	cation		
	Label Elements GHS Signal W	: /ord:		ards Identific	cation		
	Label Elements GHS Signal W GHS Hazard F	: /ord: Phrases:	nce or Mixture: None				
	Label Elements GHS Signal W GHS Hazard F Based on eval	: /ord: Phrases: uation of curre	nce or Mixture:			ccording to GHS.	
	Label Elements GHS Signal W GHS Hazard F Based on eval GHS Precauti	: <b>/ord:</b> <b>Phrases:</b> uation of curre <b>on Phrases:</b>	nce or Mixture: None			ccording to GHS.	
	Label Elements GHS Signal W GHS Hazard F Based on eval GHS Precauti No phrases ap	: <b>Pord:</b> <b>Phrases:</b> uation of curre <b>on Phrases:</b> oply.	nce or Mixture: None			ccording to GHS.	
	Label Elements GHS Signal W GHS Hazard F Based on eval GHS Precauti No phrases ap GHS Respons	: Phrases: uation of curre on Phrases: oply. se Phrases:	nce or Mixture: None			cording to GHS.	
	Label Elements GHS Signal W GHS Hazard F Based on eval GHS Precauti No phrases ap GHS Respons No phrases ap	: <b>Phrases:</b> uation of curre <b>on Phrases:</b> oply. <b>se Phrases:</b> oply.	nce or Mixture: None ently available data this substa			ccording to GHS.	
	Label Elements GHS Signal W GHS Hazard F Based on eval GHS Precauti No phrases ap GHS Respons No phrases ap GHS Storage	: Phrases: uation of curre on Phrases: oply. se Phrases: oply. and Disposa	nce or Mixture: None ently available data this substa	ance or mixture is r	not classifiable ac	cording to GHS.	
2.2	Label Elements GHS Signal W GHS Hazard F Based on eval GHS Precauti No phrases ap GHS Respons No phrases ap GHS Storage Please refer to	: <b>Phrases:</b> uation of curre on Phrases: oply. <b>se Phrases:</b> oply. <b>and Disposa</b> o Section 7 for	nce or Mixture: None ently available data this substa I Phrases: Storage and Section 13 for D	ance or mixture is r Disposal informatior	not classifiable ac	-	
	Label Elements GHS Signal W GHS Hazard F Based on eval GHS Precauti No phrases ap GHS Respons No phrases ap GHS Storage Please refer to Adverse Huma	<ul> <li>Ford:</li> <li>Phrases:</li> <li>uation of current of cur</li></ul>	nce or Mixture: None ently available data this substa Phrases: Storage and Section 13 for D laterial may be irritating to the	ance or mixture is r Disposal informatior	not classifiable ac n. nes and upper res	-	
2.2	Label Elements GHS Signal W GHS Hazard F Based on eval GHS Precauti No phrases ap GHS Respons No phrases ap GHS Storage Please refer to	: Yord: Phrases: uation of curre on Phrases: oply. se Phrases: oply. and Disposa o Section 7 for n Health M mptoms: M	<b>None</b> None ently available data this substance I <b>Phrases:</b> Storage and Section 13 for D laterial may be irritating to the lay be harmful by inhalation, in	ance or mixture is r Disposal information e mucous membran	not classifiable ac n. nes and upper res bsorption.	-	
2.2	Label Elements GHS Signal W GHS Hazard F Based on eval GHS Precauti No phrases ap GHS Respons No phrases ap GHS Storage Please refer to Adverse Huma	: Vord: Phrases: uation of curre on Phrases: oply. se Phrases: oply. and Disposal o Section 7 for n Health M mptoms: M	nce or Mixture: None ently available data this substa Phrases: Storage and Section 13 for D laterial may be irritating to the lay be harmful by inhalation, in lay cause eye, skin, or respira	ance or mixture is r Disposal information e mucous membran ingestion, or skin al atory system irritatio	not classifiable ac n. nes and upper res bsorption. on.	-	
2.2	Label Elements GHS Signal W GHS Hazard F Based on eval GHS Precauti No phrases ap GHS Respons No phrases ap GHS Storage Please refer to Adverse Huma	: Vord: Phrases: uation of curre on Phrases: oply. se Phrases: oply. and Disposal o Section 7 for n Health M mptoms: M T	nce or Mixture: None ently available data this substa Phrases: Storage and Section 13 for D laterial may be irritating to the lay be harmful by inhalation, in lay cause eye, skin, or respira	Disposal information mucous membran ingestion, or skin al atory system irritation the toxicological pro-	not classifiable ac nes and upper res bsorption. on. operties have not	spiratory tract. t been thoroughly investigated.	
2.2 2.3	Label Elements GHS Signal W GHS Hazard F Based on eval GHS Precauti No phrases ap GHS Respons No phrases ap GHS Storage Please refer to Adverse Huma Effects and Syn	: Vord: Phrases: uation of curre on Phrases: oply. se Phrases: oply. and Disposa o Section 7 for n Health M mptoms: M T Sectio	None The private of the private of	Disposal information mucous membran ingestion, or skin al atory system irritation the toxicological pro-	not classifiable ac nes and upper res bsorption. on. operties have not	spiratory tract. t been thoroughly investigated.	
2.2 2.3 CAS RTE	Label Elements GHS Signal W GHS Hazard F Based on eval GHS Precauti No phrases ap GHS Respons No phrases ap GHS Storage Please refer to Adverse Huma Effects and Syn	: Vord: Phrases: uation of curre on Phrases: oply. se Phrases: oply. and Disposa o Section 7 for n Health M mptoms: M T Sectio dous Compor H Registration	None The private of the private of	ance or mixture is r Disposal information e mucous membran ingestion, or skin al atory system irritation the toxicological pro	not classifiable ac n. nes and upper res bsorption. on. operties have not <b>ON INGREDIE</b>	spiratory tract. t been thoroughly investigated. nts	
2.2 2.3 CAS RTE	Label Elements         GHS Signal W         GHS Hazard F         Based on eval         GHS Precauti         No phrases ap         GHS Respons         No phrases ap         GHS Storage         Please refer to         Adverse Huma         Effects and System         # /         Karan         # /         REACH	: Vord: Phrases: uation of curre on Phrases: oply. se Phrases: oply. and Disposa o Section 7 for n Health M mptoms: M T Sectio dous Compor H Registration	None The private of the private of	ance or mixture is r Disposal information e mucous membrar ingestion, or skin al atory system irritation the toxicological pro Information ( Concentration	not classifiable ac n. nes and upper res bsorption. on. operties have not On Ingredie EC No./ EC No./	spiratory tract. t been thoroughly investigated. nts GHS Classification	



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		Section 4	4. First Aid Measur	es			
4.1	Description of First Aid						
	Measures:						
	In Case of Inhalation:	Remove to fresh air. I	f not breathing, give artificial re	espiration or give oxygen by	trained personnel.		
		Get immediate medic	al attention.				
	In Case of Skin Contac	: Immediately wash ski	n with soap and plenty of wate	r for at least 15 minutes. Re	move contaminated		
		clothing. Get medical	attention if symptoms occur. V	Vash clothing before reuse.			
	In Case of Eye Contact	• •	d flush eyes with plenty of wate	er for at least 15 minutes. Ha	ve eyes examined		
		and tested by medica					
	In Case of Ingestion:		water provided person is cons		-		
		-	Get medical attention. Do NOT	induce vomiting unless dire	cted to do so by		
		medical personnel.					
		Section 5.	Fire Fighting Meas	sures			
5.1	Suitable Extinguishing		foam, carbon dioxide, water, o	or dry chemical spray.			
	Media:	Use water spray to co	ool fire-exposed containers.				
	Unsuitable Extinguishi	ng A solid water stream	may be inefficient.				
	Media:						
5.2	Flammable Properties and No data available.						
	Hazards:						
		No data available.					
	Flash Pt:	No data.					
	Explosive Limits:	LEL: No data.	UEL: No data				
	Autoignition Pt:	No data.					
5.3	Fire Fighting Instructio	-	elf-contained breathing appara		H approved or		
		equivalent), and full p	protective gear to prevent conta	act with skin and eyes.			
		Section 6. Ac	cidental Release Mo	easures			
6.1	Protective Precautions	-	eathing dust, and provide adeq				
			nt, wear a NIOSH approved se				
	Emergency Procedures		sonal protection (rubber boots,		ubber gloves).		
6.2	Environmental	Take steps to avoid	release into the environment, it	f safe to do so.			
	Precautions:						
6.3	Methods and Material F	•	lect, as appropriate. al waste container for disposa	Lin apportance with local rec	ulationa		
	Up:	ing mansier to a chemic			julations.		
	ор.	_	_				
		Section 7.	Handling and Stor	age			
7.1		-	/fume/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or re					
7.2	Precautions To Be Tak						
	in Storing:	Store in accordance	with information listed on the p	roduct insert.			
	Se	ction 8. Exposu	ire Controls/Persona	al Protection			
8.1	Exposure Parameters:	•					
CAS #	# Partial Chemic	al Name	Britain EH40	France VL	Europe		
8640	70-44-0 Empagliflozin		No data.	No data.	No data.		
	I		Į	<u> </u>	ļI		
					Multi-region format		



# SAFETY DATA SHEET Empagliflozin

CAS	#	Partial Chemica	I Name	OSHA TWA	ACGIH TWA	Other Limits		
8640	70-44-0	Empagliflozin		No data.	No data.	No data.		
8.2		e Controls:						
8.2.1	-	ering Controls	Use process enclos	ures, local exhaust vent	ilation, or other engineering co	ontrols to control airborn		
	-	tion etc.):	•	nended exposure limits.				
8.2.2								
0.2.2	Eye Pro		Safety glasses					
	-	ve Gloves:		I-resistant aloves				
		rotective Clothing	-	apatible chemical-resistant gloves				
	<b>Respiratory Equipment</b> NIOSH approved respirator, as conditions warrant.							
	(Specify							
			<b>n</b> Do not take internall	N/				
	ce Pract	-			ould be equipped with an eyev	vash and a safety showe		
	Cerraci	1063.	Wash thoroughly after	•				
			No data available.	er namen gr				
		S	Section 9. Phys	sical and Chem	ical Properties			
9.1	Informat	ion on Basic Phy	vsical and Chemical F	Properties				
	Physica	l States:	[ ] Gas [	] Liquid [X] Solid				
	Appeara	ance and Odor:	A crystalline	solid				
	Melting	Point:	No data.					
	Boiling	Point:	No data.					
	Flash Pt	t:	No data.					
	Evapora	ation Rate:	No data.					
	Flamma	bility (solid, gas)	: No data avai	able.				
	Explosiv	ve Limits:	LEL: No dat	a.	UEL: No data.			
	Vapor P	ressure (vs. Air o	or mm No data.					
	Hg):							
	Vapor D	ensity (vs. Air =	1): No data.					
	Specific	Gravity (Water =	<b>1):</b> No data.					
	Solubili	ty in Water:	No data.					
	Solubili	ty Notes:	~0.5 mg/ml ii	n a 1:1 solution of EtOH	:PBS (pH 7.2); ~30 mg/ml in I	EtOH, DMSO, & DMF;		
	Autoign	ition Pt:	No data.					
9.2	Other Inf	formation						
-	Percent	Volatile:	No data.					
	Molecul	ar Formula & We	ight: C23H27ClO7	7 450.9				
			Section 10	). Stability and I	Popotivity			
					<b>Neactivity</b>			
10.1	Reactivi	-	No data available.					
10.2	Stability			able [ X ]				
10.3	-	Note(s):			on listed on the product insert	i.		
	Polyme			/ill not occur [ X ]				
10.4		ons To Avoid:	No data available.					
10.5	Incompatibility - Materials No data available.							
	To Avoi	d:						
10.6	Hazardo	ous	No data available.					
	Decomp	osition or						
						Multi-region for		



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			Section 11. Toxico				
1.1		mation on       The toxicological effects of this product have not been thoroughly studied.         cological Effects:       Image: Cological effects of this product have not been thoroughly studied.					
		- +					
CAS			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
8640	70-44-0	Empagliflozin		n.a.	n.a.	n.a.	n.a.
			Section 12. Ecolo	ogical Information	ation		
12.1	Toxicity	:	Avoid release into the environment.				
			Runoff from fire control or diluti	on water may cause	e pollution.		
12.2	Persiste		No data available.				
	Degrada		Ne dete evellete				
12.3	Bioaccu Potentia	mulative	No data available.				
12.4	Mobility		No data available.				
12.5	-		No data available.				
	assessn						
12.6	Other ac	verse effects:	No data available.				
			Section 13. Dispos	sal Consider	ations		
13.1	Waste D	<b>Disposal Method:</b> Dispose in accordance with local, state, and federal regulations.					
		-	Section 14. Tran	sport Inform	ation		
14.1							
		RANSPORT (US I r Shipping Name:	-				
	OT Hazar		Not dangerous goods.				
_	N/NA Nun						
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):				
Α	DR/RID S	hipping Name:	Not dangerous goods.				
U	N Numbe	r:					
Ha	azard Cla	SS:					
14.3	AIR TR	ANSPORT (ICAO/I	ATA):				
ICAO/IATA Shipping Name: Not dangerous goods.							
	ional Trai	nsport	Transport in accordance with lo	ocal, state, and fede	ral regulations.		
Inforn	nation:						
			Section 15. Regu	latory Inform	ation		
	•		ents and Reauthorization Act	-			
CAS			ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ		3 (TRI)
8640	70-44-0	Empagliflozin		No	No	No	
CAS #		Hazardous Components (Chemical Name)		Other US EPA or State Lists			
	70-44-0	Empagliflozin		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			

Multi-region format



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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:					
	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.				