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		according	g to Regulation (EC) No. 1907/2006 as a	mended by (EC) No. 2015/8	330 and US OSHA HC	S 2015		
		Section 1. I	dentification of the Substar	nce/Mixture and of	the Company/L	Indertaking		
1.1	Product Product Synony	t Name: ms:		loxy)-2-hydroxyprop		-3-methoxy-phenol; BM 140686;		
1.2			the substance or mixture a		-			
	Releva	ant identified uses:	For research use only, no	ot for human or veter	rinary use.			
1.3		of the Supplier of th any Name:	he Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	pany				
		ite address:	www.caymanchem.com					
		nation:	Cayman Chemical Comp	bany	+1 (73	34)971-3335		
1.4	-	ncy telephone num						
	Emerç	gency Contact:	CHEMTREC Within USA CHEMTREC Outside US		-	00)424-9300 03)527-3887		
—						J3J327-3887		
			Section 2. Haz	zards Identific	cation			
2.1		cation of the Subst	ance or Mixture:					
2.2	Label E	lements:						
	GHS S	Signal Word:	None					
	GHS I	Hazard Phrases:						
	Based	l on evaluation of cu	rrently available data this sub	stance or mixture is	not classifiable a	ccording to GHS.		
	GHS Precaution Phrases:							
	-	rases apply.						
	GHS Response Phrases:							
	No phrases apply.							
	GHS Storage and Disposal Phrases:							
	Please refer to Section 7 for Storage and Section 13 for Disposal information.							
 2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. 					spiratory tract.			
	Ellects	and Symptoms.	May cause eye, skin, or resp		•			
						ot been thoroughly investigated.		
		Secti	on 3. Composition	/Information of	on Inaredie	ents		
CAS	# /	1	onents (Chemical Name)/	Concentration	EC No./	GHS Classification		
RTEC		REACH Registrati		Concentration	EC No./ EC Index No.	GHS Classification		
1422	27-49-4	4'-hydroxyphenyl Car		100.0 %	NA	No data available.		
NA					NA			

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:	A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	dNo 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	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3		r Contain spill and collect, as appropriate.
	Up:	ng Transfer to a chemical waste container for disposal in accordance with local regulations.
	ор.	
		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	Keep 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:	

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	HEMICAL						
8.2	Exposure Controls:						
8.2.1	Engineering Controls	process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.):	vels below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	Eye Protection: S	afety glasses					
	Protective Gloves: C	patible chemical-resistant gloves					
	Other Protective Clothing:La	coat 3H approved respirator, as conditions warrant.					
	Respiratory Equipment N						
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
	ce Practices: F	acilities storing or utilizing this material should be equipped with an eyewash and a safety shower.					
	V	/ash thoroughly after handling.					
	N	o data available.					
	Sec	ction 9. Physical and Chemical Properties					
9.1	Information on Basic Physic	al 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 n	No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1):	No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	Soluble (slightly) in: acetonitrile; MeOH;					
	Octanol/Water Partition Coefficient:	No data.					
	Autoignition Pt:	No data.					
	Decomposition Temperature						
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weigh	t: C24H26N2O5 422.5					

Multi-region format



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			Section 10. Stability		vity			
0.1	Reactivit	ty:	No data available.					
0.2	Stability	:	Unstable [] Stable [X]					
10.3 Stability Note(s		Note(s):	Stable if stored in accordance with in	formation listed of	on the product	insert.		
	Polymer	ization:	Will occur [] Will not occur [X]					
0.4 Conditions To Avoid:			No data available.					
10.5 Incompatibility - Materials strong oxidizing agents								
	To Avoid	d:						
0.6	Hazardous		carbon dioxide					
	Decomposition or		carbon monoxide					
	Byproducts:		nitrogen oxides					
			Section 11. Toxicologi	cal Informa	ation			
11.1	Informat	ion on	The toxicological effects of this produ	ct have not beer	thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS #	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
14222	27-49-4	4'-hydroxyphenyl	Carvedilol	n.a.	n.a.	n.a.	n.a.	
		•	Section 12. Ecologic			•	•	
				al informat	ION			
2.1	Toxicity		· · · · · · · · · · · · · · · · · · ·	al Informat	ION			
2.1	Toxicity		Avoid release into the environment.					
	-		· · · · · · · · · · · · · · · · · · ·					
2.1 2.2	Persiste	nce and	Avoid release into the environment. Runoff from fire control or dilution wa					
12.2	-	nce and bility:	Avoid release into the environment. Runoff from fire control or dilution wa					
	Persiste Degrada	nce and bility: mulative	Avoid release into the environment. Runoff from fire control or dilution wa No data available.					
12.2 12.3	Persiste Degrada Bioaccu Potentia	nce and bility: mulative I:	Avoid release into the environment. Runoff from fire control or dilution wa No data available.					
12.2	Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil:	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available.					
2.2 2.3 2.4	Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available.					
2.2 2.3 2.4	Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available.					
12.2 12.3 12.4 12.5	Persiste Degrada Bioaccu Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB nent:	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available.	ter may cause po	ollution.			
12.2 12.3 12.4 12.5	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal of	ter may cause po	ollution.			
12.2 12.3 12.4 12.5 12.6	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB nent:	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal of Dispose in accordance with local, sta	ter may cause po Consideration	iONS			
12.2 12.3 12.4 12.5 12.6	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects: isposal Method:	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal of Dispose in accordance with local, sta Section 14. Transpo	ter may cause po Consideration	iONS			
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D	nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects: isposal Method: RANSPORT (US I	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transported	ter may cause po Consideration	iONS			
12.2 12.3 12.4 12.5 12.6 13.1 14.1	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name:	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transported	ter may cause po Consideration	iONS			
12.2 12.3 12.4 12.5 13.1 14.1	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D	nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transported	ter may cause po Consideration	iONS			
I2.2 I2.3 I2.4 I2.5 I2.6 I3.1 I4.1 D(UI	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber:	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT): : Not dangerous goods.	ter may cause po Consideration	iONS			
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(UI 14.1	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazaro N/NA Nun LAND T	nce and bility: mulative I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT): Mot dangerous goods.	ter may cause po Consideration	iONS			
12.2 12.3 12.4 12.5 12.6 13.1 14.1 D(UI 14.1 A	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazaro N/NA Nun LAND T	nce and bility: mulative l: in Soil: of PBT and vPvB hent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT): : Not dangerous goods.	ter may cause po Consideration	iONS			
12.2 12.3 12.4 12.5 12.6 13.1 14.1 Di UI 14.1 AI UI	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun LAND T DR/RID SI	nce and bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	Avoid release into the environment. Runoff from fire control or dilution wa No data available. No data available. No data available. No data available. No data available. Section 13. Disposal (Dispose in accordance with local, sta Section 14. Transpo DOT): Mot dangerous goods.	ter may cause po Consideration	iONS			



14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Transport in accordance with local, state, and federal regulations.

Not dangerous goods.

Information:

Additional Transport

Section 15. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
142227-49-4 4'-hydroxyphenyl		Carvedilol	No	No	No		
CAS # Hazardous Com		nponents (Chemical Name) Other US EPA or State Lists		•			
142227-49-4	4'-hydroxyphenyl Carvedilol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Oth	ner Information	า			
Revision Date:		03/09/2019					
Additional Information About		No data available.					
This Product:							
Company Polic	cy 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.					