

	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008								
		Section 1.	dentification of the Substar	nce/Mixture and of	the Company/U	ndertaking			
1.1	Produc	Product Code:15957Product Name:Losartan Carboxylic AcidSynonyms:2-butyl-4-chloro-1-[[2'-(2H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1H-imidazole-5-carboxylic acid; E-3174; EXP-3174;							
1.2		nt identified uses o ant identified uses	f the substance or mixture a		-				
1.3	Relevant identified uses:For research use only, not for human or veterinary use.Details of the Supplier of the Safety Data Sheet:								
	-	any Name:	Cayman Chemical Com 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany					
		site address: nation:	www.caymanchem.com		1 (72	4\071 2225			
1.4		ency telephone nur	Cayman Chemical Comp	Jany	+1 (73	4)971-3335			
1.4	Emerge		ibei.						
	Emerg	gency Contact:	CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887			
			Section 2. Ha	zards Identifi	cation				
2.1.1 2.2 2.2.1 2.3	Label E Labelir GHS Si GHS H Based C GHS P No phra GHS R GHS Si Please Advers	lements: ng according to Re- gnal Word: azard Phrases: on evaluation of curr recaution Phrases: ases apply. esponse Phrases: ases apply. torage and Disposa refer to Section 7 fo se Human Health and Symptoms:	al Phrases: r Storage and Section 13 for I Material may be irritating to t May be harmful by inhalatior May cause eye, skin, or resp To the best of our knowledge	[CLP]: tance or mixture is n Disposal information the mucous membra n, ingestion, or skin a piratory system irritat e, the toxicological pi	nes and upper res absorption. ion. roperties have not	spiratory tract.			
		Sect	ion 3. Composition	/Information	on Ingredie	nts			
CAS RTE		Hazardous Comp REACH Registrat	onents (Chemical Name)/ ion No.	Concentration	EC No./ EC Index No.	GHS Classification			
1247 NI400	50-92-1 94850	1H-Imidazole-5-carb 2-butyl-4-chloro-1-((2 (1,1'-biphenyl)-4-yl)m	'-(14-tetrazol-5-yl)	100.0 %	NA NA	No data available.			
						Multi-region format			



			Section 4	<ol> <li>First Aid Mea</li> </ol>	sures			
4.1	Description of First Aid No data available. Measures:							
		of Inhalation:	Remove to fresh air. If Get immediate medica		cial respiration or give oxy	gen by trained personnel.		
	In Case	of Skin Contact:	-		water for at least 15 minu cur. Wash clothing before	ites. Remove contaminatec reuse.		
	In Case	of Eye Contact:	Hold eyelids apart and and tested by medical	• • •	f water for at least 15 min	utes. Have eyes examined		
	In Case	of Ingestion:			conscious. Never give an NOT induce vomiting unl			
			Section 5.	Fire Fighting M	easures			
5.1	Media:	e Extinguishing ble Extinguishing		ool fire-exposed container	ater, or dry chemical spray rs.	Ι.		
	Media:	sie Exiligatering						
5.2	Flammable Properties andNo data available. Hazards:							
	Flash Pt		No data.					
	-	ve Limits:	LEL: No data.	UEL: No	data.			
	-	ition Pt:	No data.	<b>1</b>				
5.3	3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved o equivalent), and full protective gear to prevent contact with skin and eyes.							
			Section 6. Acc	cidental Release	Measures			
6.1		ve Precautions,	•	ors and provide adequate				
					ed self-contained breathing	g apparatus, or respirator,		
6.2	Environ	2		elease into the environm		neavy rubber gioves).		
0.2	Precaut		Take sleps to avoid I					
6.3			Contain spill and coll	ect, as appropriate.				
			•		posal in accordance with l	local regulations.		
			Section 7.	Handling and S	Storage			
7.1	Precaut in Hand		Avoid breathing dust/ Avoid prolonged or re	fume/gas/mist/vapours/sp peated exposure.	bray.			
7.2	Precaut in Storii		Keep container tightly Store in accordance v	v closed. vith information listed on	the product insert.			
		Sec	tion 8. Exposu	re Controls/Pers	sonal Protection			
8.1	Exposur	e Parameters:						
CAS	#	Partial Chemical	Name	Britain EH40	France VL	Europe		
1247	50-92-1	1H-Imidazole-5-ca 2-butyl-4-chloro-1 (1,1'-biphenyl)-4-y	-((2'-(14-tetrazol-5-yl)	No data.	No data.	No data.		
		· · · · · · · · · · · · · · · · · · ·						



CAS #	ŧ	Partial Chemical N	ame	OSHA TWA	ACGIH TWA	Other Limits				
1247	50-92-1	1H-Imidazole-5-cart 2-butyl-4-chloro-1-(( (1,1'-biphenyl)-4-yl)	2'-(14-tetrazol-5-yl)	No data.	No data.	No data.				
3.2	Exposur	e Controls:	<i>,</i> ,	ļ		Į				
3.2.1	-		lse process enclosu	res, local exhaust ventil	ation, or other engineering c	ontrols to control airborn				
	-	-	-	ended exposure limits.						
8.2.2	=	al protection equipr	nent:							
	Eye Pro		afety glasses							
	-		compatible chemical	npatible chemical-resistant gloves						
	Other P	rotective Clothing:L	ab coat							
	Respira	tory Equipment	IOSH approved res	pirator, as conditions wa	arrant.					
	(Specify									
	Work/Hy	ygienic/Maintenan	o not take internally							
	ce Pract	tices:	acilities storing or ut	ilizing this material sho	uld be equipped with an eyev	vash and a safety showe				
		١	Vash thoroughly afte	r handling.						
		1	lo data available.							
		Se	ction 9. Phys	ical and Chem	ical Properties					
9.1	Informat	ion on Basic Physic	al and Chemical P	roperties						
	Physica	l States:	[ ] Gas [	] Liquid [X] Solid						
	Appeara	ance and Odor:	A crystalline s	olid						
	Melting	Point:	No data.							
	Boiling	Point:	No data.							
	Flash Pt	t:	No data.							
	Evapora	ation Rate:	No data.							
	Explosiv	ve 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):									
	Solubility in Water:		No data.							
	Solubility Notes:		~0.5 mg/ml in	~0.5 mg/ml in a 1:1 solution of EtOH:PBS (pH 7.2); ~30 mg/ml in EtOH, DMSO, & DMF;						
	Autoign	ition Pt:	No data.							
9.2	Other Inf	formation								
	Percent Volatile:		No data.							
	Molecul	ar Formula & Weigł	t: C22H21CIN6	C22H21CIN6O2 436.9						
			Section 10	. Stability and F	Reactivity					
10.1	Reactivi	ity:	lo data available.							
10.2	Stability	<i>r</i> : l	Instable [ ] Stal	ble [ X ]						
10.3	Stability	Note(s):	stable if stored in acc	cordance with information	on listed on the product inser	t.				
	Polyme	rization:	Vill occur [ ] Wi	ll not occur [ X ]						
10.4	Conditio	ons To Avoid:	lo data available.							
10.5	Incompa	atibility - Materials N	lo data available.							
	To Avoi	d:								
10.6	Hazardo	ous N	lo data available.							
	Decomp	osition Or								
						Multi-region form				



	Byprodu	cts:								
			Sectio	on 11. Toxicolog	gical Informa	ation				
11.1	Informat Toxicolo	ion on gical Effects:	The toxicological effects of this product have not been thoroughly studied. Losartan Carboxylic Acid - Toxicity Data: Interperitoneal LD50 (mouse): 441 mg/kg;							
	Chronic	Toxicological	Losartan Carboxylic Acid - Investigated as a drug.							
	Effects:		-	Registry of Toxic Effect		stances (RTE	CS) data is pre	sented here.		
			See actual entry in RTECS for complete information.							
<b>0</b> !				arboxylic Acid RTECS N						
	nogenicity	i	NTP? No	IARC Monographs?		egulated? No	400			
CAS			ponents (Chemical Name)		NTP	IARC	ACGIH	OSHA		
1247	750-92-1	1H-Imidazole-5-c 2-butyl-4-chloro-1	•		n.a.	n.a.	n.a.	n.a.		
		(1,1'-biphenyl)-4-								
			Sect	ion 12. Ecologi	cal Informat	ion	4			
12.1	Toxicity			se into the environment		_				
	-		Runoff from fire control or dilution water may cause pollution.							
12.2	Persiste	nce and	No data ava	ailable.						
	Degrada	bility:								
12.3	Bioaccu	mulative	No data ava	ilable.						
	Potentia	l:								
12.4	Mobility	in Soil:	No data available.							
12.5	Results	of PBT and vPvB	3 No data available.							
	assessm	ient:								
			Section	on 13. Disposal	Considerat	ions				
13.1	Waste D	isposal Method:	Dispose in a	accordance with local, s	tate, and federal re	egulations.				
			Sec	tion 14. Transp	ort Informat	ion				
14.1	LAND T	RANSPORT (US I	DOT):							
D	OT Prope OT Hazaro N/NA Nun		: Not dar	ngerous goods.						
14.1	LAND T	RANSPORT (Euro	opean ADR/I	RID):						
		nipping Name:	Not dar	ngerous goods.						
	N Number									
	azard Clas									
14.3		NSPORT (ICAO/I Shipping Name:	-	ngerous goods.						
	tional Trar			n accordance with local	state and federal	regulations				
	mation:				, state, and rederat	าอฐนเฉแบบเอ.				



		Section 15. Regu	•				
EPA SARA (Si	uperfund Amendn	nents and Reauthorization Act	t of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
124750-92-1	1H-Imidazole-5-carboxylic acid, 2-butyl-4-chloro-1-((2'-(14-tetrazol-5-yl) (1,1'-biphenyl)-4-yl)methyl)-		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA o	r State Lists			
124750-92-1	1H-Imidazole-5-c 2-butyl-4-chloro- (1,1'-biphenyl)-4-	1-((2'-(14-tetrazol-5-yl)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
Regulatory Infe Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFF	R 1910.1200 and Re	egulation (EC)		
		Section 16. Ot	her Information	on			
Revision Date:		02/02/2015					
Additional Info This Product:	ormation About	No data available.					
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howe express or implied, with respec use. Users should make their their particular purposes.	ever, we make no wa ct to such informatior	rranty of merchanta n, and we assume n	bility or any other warrant o liability resulting from its		