

Revision: 07/28/2018

Multi-region format

Page: 1 of 5

			p Regulation (EC) No. 1907/2006 as ame	-					
		Section 1. Ide	entification of the Substance	e/Mixture and of	f the Company/Ur	ndertaking			
.1	Product		25509						
	Product		Irbesartan-d4						
	Synonyı	ms:	2-butyl-1,3-diazaspiro[4.4]non-1						
.2	Relevant identified uses of the substance or mixture and uses advised against:								
	Releva	ant identified uses:	For research use only, not	for human or vete	erinary use.				
.3		of the Supplier of the	-						
	Compa	any Name:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108						
	Web s	ite address:	www.caymanchem.com						
	Inform	ation:	Cayman Chemical Compar	bany +1 (734)971-3335					
.4	-	ncy telephone numb							
	Emerg	ency Contact:	CHEMTREC Within USA a CHEMTREC Outside USA			0)424-9300			
						3)527-3887			
			Section 2. Haza	ards Identifi	ication				
.1		cation of the Substa	nce or Mixture:						
.2		ements:							
		ignal Word:	None						
	GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not					pording to CHS			
			entry available data this substa						
	GHS Precaution Phrases:								
	No phrases apply. GHS Response Phrases:								
	GHS R	No phrases apply.							
		-							
	No phr	-	l Phrases:						
	No phr GHS S	rases apply. Storage and Disposa	I Phrases: Storage and Section 13 for D	Disposal informatio	on.				
2.3	No phr GHS S Please	rases apply. Storage and Disposa e refer to Section 7 for		-		piratory tract.			
2.3	No phr GHS S Please Adverse	rases apply. Storage and Disposa e refer to Section 7 for e Human Health M and Symptoms: M	Storage and Section 13 for D laterial may be irritating to the lay be harmful by inhalation, i	e mucous membra	anes and upper res absorption.	piratory tract.			
2.3	No phr GHS S Please Adverse	rases apply. Storage and Disposa e refer to Section 7 for e Human Health M and Symptoms: M	Storage and Section 13 for D laterial may be irritating to the lay be harmful by inhalation, i lay cause eye, skin, or respira	e mucous membra ngestion, or skin atory system irrita	anes and upper res absorption. tion.				
2.3	No phr GHS S Please Adverse	rases apply. Storage and Disposa e refer to Section 7 for e Human Health M and Symptoms: M M T	Storage and Section 13 for D laterial may be irritating to the lay be harmful by inhalation, i lay cause eye, skin, or respira to the best of our knowledge, t	e mucous membra ngestion, or skin atory system irrita the toxicological p	anes and upper res absorption. tion. properties have not	been thoroughly investigated.			
	No phr GHS S Please Adverse Effects	rases apply. Storage and Disposa e refer to Section 7 for e Human Health M and Symptoms: M T Sectio	Storage and Section 13 for D laterial may be irritating to the lay be harmful by inhalation, i lay cause eye, skin, or respira to the best of our knowledge, to on 3. Composition/I	e mucous membra ngestion, or skin atory system irrita the toxicological p nformation	anes and upper res absorption. tion. properties have not on Ingredie	been thoroughly investigated.			
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1216	No phr GHS S Please Adverse Effects	rases apply. Storage and Disposa e refer to Section 7 for e Human Health M and Symptoms: M T Section Hazardous Compor	Storage and Section 13 for D Material may be irritating to the May be harmful by inhalation, i May cause eye, skin, or respiration to the best of our knowledge, to mail and a composition/I ments (Chemical Name)/ n No.	e mucous membra ngestion, or skin atory system irrita the toxicological p nformation	anes and upper res absorption. tion. oroperties have not ON Ingredie EC No./ EC Index No. NA	been thoroughly investigated.			
<b>CAS</b> <b>RTE</b>	No phr GHS S Please Adverse Effects # / CS #	rases apply. Storage and Disposa e refer to Section 7 for e Human Health M and Symptoms: M M T Section Hazardous Compor REACH Registratio	Storage and Section 13 for D Material may be irritating to the May be harmful by inhalation, i May cause eye, skin, or respiration to the best of our knowledge, to mail and a composition/I ments (Chemical Name)/ n No.	e mucous membra ingestion, or skin atory system irrita the toxicological p Information Concentration	anes and upper res absorption. tion. properties have not ON Ingredier EC No./ EC Index No.	been thoroughly investigated NtS GHS Classification			
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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 A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	I <b>d</b> 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, Protective Equipment an Emergency Procedures:	<ul><li>Avoid breathing vapors and provide adequate ventilation.</li><li>d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).</li></ul>
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanir 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	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:	
1		

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(Ve 8.2.2 Pei Eye Pro Oth Res (Sp Wo ce Vo ce 1.1 Info Phy Ap pH: Me Boi Fla Eva Fla Eva Fla Eva Hg) Vaj	entilation etc.): le ersonal protection equipm re Protection: S otective Gloves: C her Protective Clothing:L espiratory Equipment N pecify Type): ork/Hygienic/Maintenan D Practices: F V Sec ormation on Basic Physic pysical States: ppearance and Odor:	Safety glasses Compatible chemical-resistant gloves .ab coat NOSH approved respirator, as conditions warrant.				
8.2.2 Per Eye Pro Oth Res (Sp Wo ce .1 Info Phy Ap pH: Boi Fla Eva Fla Eva Fla Eva Fla Vaj Hg) Vaj	ersonal protection equipmer e Protection: S otective Gloves: C her Protective Clothing:L espiratory Equipment N pecify Type): ork/Hygienic/Maintenan D Practices: F V N Sec ormation on Basic Physic sysical States: opearance and Odor: l: elting Point: oiling Point: ash Pt:	nent:         Safety glasses         Compatible chemical-resistant gloves        ab coat         NIOSH approved respirator, as conditions warrant.         Do not take internally.         Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe         Vash thoroughly after handling.         No data available.         Ction 9. Physical and Chemical Properties         sal and Chemical Properties         [] Gas       [] Liquid         [] Gas       [] Liquid         No data.         No data.         No data.         No data.				
Eye Pro Oth Res (Sp Wo ce .1 Info Phy Apl pH: Me Boi Fla Eva Fla Eva Fla Eva Hg) Vaj	e Protection: S otective Gloves: C her Protective Clothing:L espiratory Equipment N pecify Type): ork/Hygienic/Maintenan D Practices: F V Sec ormation on Basic Physic sysical States: opearance and Odor: I: elting Point: oiling Point: ash Pt:	Safety glasses Compatible chemical-resistant gloves Lab coat NIOSH approved respirator, as conditions warrant. Co not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Vash thoroughly after handling. No data available. Ction 9. Physical and Chemical Properties Ction 9. Physical and Chemical Properties []Gas []Liquid [X]Solid A solid No data. No data. No data.				
Pro Oth Res (Sp Wo ce .1 Info Phy App pH: Boi Fla Eva Fla Eva Fla Eva Hgj Vap	otective Gloves: C her Protective Clothing:L espiratory Equipment N pecify Type): ork/Hygienic/Maintenan D Practices: F V N Sec ormation on Basic Physic sysical States: opearance and Odor: I: elting Point: oiling Point: ash Pt:	Compatible chemical-resistant gloves ab coat NIOSH approved respirator, as conditions warrant. Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Vash thoroughly after handling. No data available. Ction 9. Physical and Chemical Properties Cal and Chemical Properties []Gas []Liquid [X]Solid A solid No data. No data. No data.				
Oth Res (Sp Wo ce .1 Info Phy Ap pH: Me Boi Fla Eva Fla Eva Fla Eva Fla Vap Hg) Vap	her Protective Clothing:L espiratory Equipment N pecify Type): ork/Hygienic/Maintenan D Practices: F V N Sec ormation on Basic Physic opearance and Odor: I: elting Point: oiling Point: ash Pt:	Lab coat         NIOSH approved respirator, as conditions warrant.         Do not take internally.         Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower Wash thoroughly after handling.         No data available.         Ction 9. Physical and Chemical Properties         cal and Chemical Properties         []Gas       []Liquid         []Gas       []Liquid         []Gas       []Liquid         [] Gas       []Liquid         [] Mo data.         No data.         No data.				
Res (Sp Wo ce .1 Info Phy Ap pH: Boi Fla Eva Fla Eva Fla Eva Fla Vap Hg) Vap	espiratory Equipment N pecify Type): ork/Hygienic/Maintenan D Practices: F V Sec ormation on Basic Physic opearance and Odor: I: elting Point: oiling Point: ash Pt:	NOSH approved respirator, as conditions warrant.				
(Sp Wo ce .1 Info Phy Apl pH: Me Boi Fla Eva Fla Eva Hg Vaj	pecify Type): prk/Hygienic/Maintenan D Practices: F V Sec prmation on Basic Physic pearance and Odor: I: elting Point: pilling Point: ash Pt:	Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety showe Wash thoroughly after handling. No data available. Ction 9. Physical and Chemical Properties cal and Chemical Properties []Gas []Liquid [X]Solid A solid No data. No data. No data.				
Wo ce .1 Info Phy Ap pH: Boi Fla Eva Fla Eva Hg Vap Hg)	ork/Hygienic/Maintenan D Practices: F V N Sec ormation on Basic Physic opearance and Odor: I: elting Point: oiling Point: ash Pt:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower         Wash thoroughly after handling.         No data available.         Ction 9. Physical and Chemical Properties         cal and Chemical Properties         [] Gas       [] Liquid         [X] Solid         A solid         No data.         No data.				
ce .1 Info Phy Apl pH: Me Boi Fla Eva Fla Eva Hg Vaj	Practices: F V N Sec ormation on Basic Physic opearance and Odor: I: elting Point: oiling Point: ash Pt:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower         Wash thoroughly after handling.         No data available.         Ction 9. Physical and Chemical Properties         cal and Chemical Properties         [] Gas       [] Liquid         [X] Solid         A solid         No data.         No data.				
.1 Info Phy Apj pH: Boi Fla Eva Fla Exp Vap Hgj Vap	V Sec ormation on Basic Physic hysical States: opearance and Odor: l: elting Point: biling Point: ash Pt:	Wash thoroughly after handling. No data available. Ction 9. Physical and Chemical Properties cal and Chemical Properties []Gas []Liquid [X]Solid A solid No data. No data. No data.				
Phy Apj pH: Me Boi Fla Eva Fla Exp Vap Hg) Vap	N Sec ormation on Basic Physic hysical States: opearance and Odor: I: elting Point: oiling Point: ash Pt:	No data available. Ction 9. Physical and Chemical Properties Cal and Chemical Properties []Gas []Liquid [X]Solid A solid No data. No data. No data.				
Phy Apj pH: Me Boi Fla Eva Fla Exp Vap Hg) Vap	Sec ormation on Basic Physic opearance and Odor: I: elting Point: oiling Point: ash Pt:	ction 9. Physical and Chemical Properties         cal and Chemical Properties         []Gas       []Liquid         [X]Solid         A solid         No data.         No data.         No data.				
Phy Apj pH: Me Boi Fla Eva Fla Exp Vap Hg) Vap	ormation on Basic Physic hysical States: opearance and Odor: I: elting Point: biling Point: ash Pt:	cal and Chemical Properties          []Gas       []Liquid       [X]Solid         A solid       No data.         No data.       No data.         No data.       No data.				
Phy Apj pH: Me Boi Fla Eva Fla Exp Vap Hg) Vap	ormation on Basic Physic hysical States: opearance and Odor: I: elting Point: biling Point: ash Pt:	cal and Chemical Properties          []Gas       []Liquid       [X]Solid         A solid       No data.         No data.       No data.         No data.       No data.				
Phy Apj pH: Me Boi Fla Eva Fla Exp Vap Hg) Vap	ysical States: pearance and Odor: I: elting Point: piling Point: ash Pt:	[]Gas []Liquid [X]Solid A solid No data. No data. No data.				
Apj pH: Boi Fla Eva Fla Exp Vaj Vaj	pearance and Odor: l: elting Point: oiling Point: ash Pt:	A solid No data. No data. No data.				
pH: Me Boi Fla Eva Fla Exp Vap Hg) Vap	l: elting Point: oiling Point: ash Pt:	No data. No data. No data.				
Me Boi Fla Eva Fla Exp Vap Hg) Vap	elting Point: viling Point: ash Pt:	No data. No data.				
Boi Fla Fla Exp Vap Hgj Vap	oiling Point: ash Pt:	No data.				
Fla Eva Fla Exp Vap Vap	ash Pt:					
Eva Fla Exp Vap Hgj Vap		No dala.				
Fla Exp Vap Hg) Vap		No data.				
Exp Vap Hg) Vap	ammability (solid, gas):	No data available.				
Var Hgj Var	plosive Limits:	LEL: No data. UEL: No data.				
Hg) Vaj	por Pressure (vs. Air or n					
Va						
-	por Density (vs. Air = 1):	No data.				
Sna	ecific Gravity (Water = 1)	No data.				
=	lubility in Water:	No data.				
	lubility Notes:	Soluble in: MeOH (heated); No data.				
	tanol/Water Partition					
	pefficient:					
	toignition Pt:	No data.				
	composition Temperatur					
	scosity:	No data.				
	ner Information					
	rcent Volatile:	No data.				
IVIO	blecular Formula & Weigh					



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	Section 10. Stability and Reactivity													
10.1	Reactivi	ty:	No data available.											
10.2	Stability:     Unstable []     Stable [X]													
10.3	<b>0.3 Stability Note(s):</b> Stable if stored in accordance with information listed on the product insert.													
	Polymerization: Will occur [ ] Will not occur [ X ]													
10.4	4 Conditions To Avoid: No data available.													
10.5	5 Incompatibility - Materials strong oxidizing agents													
	To Avoid	d:												
10.6														
Decomposition or		osition or	carbon monoxide											
Byproducts: nitrogen oxides														
			Section 11. Toxicological	Informa	ation									
11.1	Informat	ion on	The toxicological effects of this product ha	ave not beel	n thoroughly stu	udied.								
	Toxicolo	gical Effects:												
Carcii	nogenicity	/:	NTP? No IARC Monographs? No OSHA Regulated? No											
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA							
12168	383-23-6	Irbesartan-d4		n.a.	n.a.	n.a.	n.a.							
			Section 12. Ecological I	nformat	ion									
12.1	Toxicity	:	Avoid release into the environment.											
			Runoff from fire control or dilution water may cause pollution.											
			No data available.											
	Degrada	bility:												
12.3	Bioaccu	mulative	No data available.											
	Potentia	I:												
12.4	Mobility	in Soil:	No data available.											
12.5	Results	of PBT and vPvB	No data available.											
	assessm	nent:												
12.6														
	Section 13. Disposal Considerations													
13.1	•													
			Section 14. Transport I	nformat	tion									
14.1	LAND T	RANSPORT (US I	DOT):											
D	OT Prope	r Shipping Name:	Not dangerous goods.											
D	DOT Hazard Class:													
U	N/NA Nun	nber:												
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):											
A	DR/RID S	hipping Name:	Not dangerous goods.											
U	N Numbe	r:												
н	azard Cla	SS:												

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Calman
Caynan

14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: N

ne: Not dangerous goods.

Additional Transport Information:

# Section 15. Regulatory Information

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

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
1216883-23-6 Irbesartan-d4			No	No	No	
CAS # Hazardous Components (		ponents (Chemical Name)	Other US EPA or State Lists			
1216883-23-6	Irbesartan-d4		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 Informatio	n		
Revision Date:		07/28/2018				
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.				