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		Section 1. Ide	entification of the Substanc	ce/Mixture and of the	he Company/Ur	ndertaking		
1.1	Produc	t Code:	29454					
		t Name:	BRL 44408 (maleate)					
	Synony	ms:	2-[(4,5-dihydro-1H-imidazol-2-yl)methyl]-2,3-dihydro-1-methyl-1H-isoindole, 2Z-butenedioate;					
.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.							
1.3	Details of the Supplier of the Safety Data Sheet:							
	Comp	any Name:	Cayman Chemical Compa	any				
			1180 E. Ellsworth Rd.					
			Ann Arbor, MI 48108					
		site address:	www.caymanchem.com			0074 0005		
		nation:	Cayman Chemical Compa	any	+1 (734	4)971-3335		
.4	-	ency telephone numb						
	Emer	gency Contact:	CHEMTREC Within USA		•	0)424-9300		
			CHEMTREC Outside USA			3)527-3887		
			Section 2. Haz	ards Identific	ation			
2.1	Classifi	cation of the Substa	nce or Mixture:					
		cation of the Substa	nce or Mixture:					
	Label E	lements:						
	Label E GHS \$	lements: Signal Word:	nce or Mixture: None					
	Label E GHS S GHS	lements: Signal Word: Hazard Phrases:	None	tance or mixture is n	ot classifiable ac	cording to GHS.		
	Label E GHS S GHS Based	l ements: Signal Word: Hazard Phrases: d on evaluation of curre	None ently available data this subst	tance or mixture is n	ot classifiable ac	cording to GHS.		
	Label E GHS S GHS Based GHS	Ilements: Signal Word: Hazard Phrases: d on evaluation of curre Precautionary Phrase	None ently available data this subst	tance or mixture is n	ot classifiable ac	cording to GHS.		
	Label E GHS S GHS Based GHS No ph	Ilements: Signal Word: Hazard Phrases: d on evaluation of curre Precautionary Phrase Irases apply.	None ently available data this subst	tance or mixture is n	ot classifiable ac	cording to GHS.		
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	Label E GHS Based GHS No ph GHS No ph GHS	Ilements: Signal Word: Hazard Phrases: d on evaluation of curre Precautionary Phrase trases apply. Response Phrases: trases apply. Storage and Disposa	None ently available data this subst es: I Phrases:			cording to GHS.		
	Label E GHS GHS Based GHS No ph GHS No ph GHS	Ilements: Signal Word: Hazard Phrases: d on evaluation of curre Precautionary Phrase trases apply. Response Phrases: trases apply. Storage and Disposa	None ently available data this subst			cording to GHS.		
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2.2	Label E GHS GHS Based GHS No ph GHS Pleas UFI: Advers	Clements: Signal Word: Hazard Phrases: d on evaluation of curre Precautionary Phrase arases apply. Response Phrases: arases apply. Storage and Disposa e refer to Section 7 for se Human Health Ma and Symptoms: Ma	None ently available data this subst es: I Phrases: Storage and Section 13 for E Naterial may be irritating to the Nay be harmful by inhalation, Nay cause eye, skin, or respire	Disposal information e mucous membran ingestion, or skin ab ratory system irritatio	es and upper res psorption.	piratory tract.		
2.2	Label E GHS GHS Based GHS No ph GHS Pleas UFI: Advers	Clements: Signal Word: Hazard Phrases: d on evaluation of curre Precautionary Phrase arases apply. Response Phrases: arases apply. Storage and Disposa e refer to Section 7 for se Human Health M a and Symptoms: M T	None ently available data this subst es: I Phrases: Storage and Section 13 for D laterial may be irritating to the lay be harmful by inhalation, lay cause eye, skin, or respin o the best of our knowledge,	Disposal information e mucous membran ingestion, or skin at ratory system irritatio the toxicological pro	es and upper res osorption. on. operties have not	piratory tract. been thoroughly investigated		
2.1 2.2 2.3	Label E GHS S GHS Based GHS No ph GHS Pleas UFI: Advers Effects	Ilements: Signal Word: Hazard Phrases: d on evaluation of curre Precautionary Phrase arases apply. Response Phrases: arases apply. Storage and Disposa e refer to Section 7 for se Human Health M and Symptoms: M T Sectio	None ently available data this subst es: I Phrases: Storage and Section 13 for I faterial may be irritating to the fay be harmful by inhalation, fay cause eye, skin, or respir- to the best of our knowledge, in 3. Composition/	Disposal information e mucous membran ingestion, or skin at ratory system irritatio the toxicological pro Information c	es and upper res osorption. on. operties have not	piratory tract. been thoroughly investigated nts		
2.2 2.3	Label E GHS S GHS Based GHS No ph GHS Pleas UFI: Advers Effects	Ilements: Signal Word: Hazard Phrases: d on evaluation of curre Precautionary Phrase arases apply. Response Phrases: arases apply. Storage and Disposa e refer to Section 7 for se Human Health M and Symptoms: M T Sectio	None ently available data this substees: I Phrases: Storage and Section 13 for D Material may be irritating to the May be harmful by inhalation, May cause eye, skin, or respire to the best of our knowledge, on 3. Composition/ ments (Chemical Name)/	Disposal information e mucous membran ingestion, or skin at ratory system irritatio the toxicological pro	es and upper res osorption. on. operties have not	piratory tract. been thoroughly investigated		
2.2 2.3 CAS	Label E GHS S GHS Based GHS No ph GHS Pleas UFI: Advers Effects	Ilements: Signal Word: Hazard Phrases: d on evaluation of curre Precautionary Phrase Irases apply. Response Phrases: Irases apply. Storage and Disposa e refer to Section 7 for Se Human Health and Symptoms: M T Section Hazardous Component	None ently available data this substees: I Phrases: Storage and Section 13 for D laterial may be irritating to the lay be harmful by inhalation, lay cause eye, skin, or respire to the best of our knowledge, in 3. Composition/ ments (Chemical Name)/ n No.	Disposal information e mucous membran ingestion, or skin at ratory system irritatio the toxicological pro Information c	es and upper res psorption. on. operties have not on Ingrediei EC No./	piratory tract. been thoroughly investigated nts		

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 an	ndNo data available.
	Hazards:	
		No data available.
	Flash Pt:	No data.
		LEL: No data. UEL: No data.
	Explosive Limits:	No data.
-	Autoignition Pt:	
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.
0.0		ng Transfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken	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:	
8.2	Exposure Controls:	
8.2.1	Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Multi-region format



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	(Ventilation etc.):							
8.2.2	Personal protection equip	oment:						
	Eye Protection:	fety 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:	ities storing or utilizing this material should be equipped with an eyewash and a safety showe						
		Wash thoroughly after handling.	h thoroughly after handling.					
		No data available.						
	Se	ection 9. Physical and Chemical Properties						
9.1	Information on Basic Phys	ical 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	mm No data.						
	Hg):	No data						
	Vapor Density (vs. Air = 1)							
	Specific Gravity (Water =							
	Solubility in Water:	No data.						
	Solubility Notes: Octanol/Water Partition	~10 mg/ml in PBS (pH 7.2); ~30 mg/ml in DMSO & DMF;						
	Coefficient:	No data.						
		Ne data						
	Autoignition Pt:	No data. Jire: No data.						
	Decomposition Temperate Viscosity:	No data.						
9.2	Other Information	No data.						
9.2	Percent Volatile:	No data.						
	D (1.)(Section 10. Stability and Reactivity						
10.1	Reactivity:	No data available.						
10.2 10.3	Stability: Stability Note(s):	Unstable [] Stable [X] Stable if stored in accordance with information listed on the product insert.						
10.5								
10 4	Polymerization:							
10.4	Conditions To Avoid:	No data available.						
10.5	Incompatibility - Materials strong acids							
	To Avoid:	strong bases strong oxidizing agents						
		strong reducing agents						
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10.6	Hazardo		No data available.					
	-	osition or						
	Byprodu	icts:						
			Section 11. Toxicologic	cal Informa	ation			
11.1	Informat	tion on	The toxicological effects of this product have not been thoroughly studied.					
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
6818	06-46-2	BRL 44408 (male	ate)	n.a.	n.a.	n.a.	n.a.	
		•	Section 12. Ecologica	al Informat	ion	+	-	
12.1	Toxicity	:	Avoid release into the environment.					
			Runoff from fire control or dilution wat	er may cause p	ollution.			
12.2	2 Persistence and		No data available.					
	Degrada	bility:						
12.3		mulative	No data available.					
	Potentia		NI					
12.4	Mobility		No data available.					
12.5	assessn		No data available.					
12.6		lverse effects:	No data available.					
			Section 13. Disposal C	Considerat	ions			
13.1	Waste D	isposal Method:	Dispose in accordance with local, stat					
	Music D		Section 14. Transport		-			
			•					
14.1		RANSPORT (US D						
	OT Prope	r Shipping Name:	Not dangerous goods.					
	N/NA Num							
14.1		RANSPORT (Euro	pean ADR/RID):					
		nipping Name:	Not dangerous goods.					
	N Number							
Ha	azard Clas	ss:						
14.3	AIR TRA	NSPORT (ICAO/I	ATA):					
		Shipping Name:	Not dangerous goods.					
_	N Number			Packing Grou	ıp:			
	azard Clas		Toronomia in accordance with level of	at a sure of the state of the				
	tional Trai mation:	nsport	Transport in accordance with local, st	ate, and tedera	regulations.			
	nation.							



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		Section 15. Regu	latory informa	ation	
EPA SARA (Su	perfund Amendn	nents and Reauthorization Act	of 1986) Lists		
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
681806-46-2	BRL 44408 (male	eate)	No	No	No
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or	r State Lists	
681806-46-2 BRL 44408 (male		eate)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: PROP.65: No		: No; TSCA: No; CA
Regulatory Information Statement:		This SDS was prepared in acco No.1272/2008.	ordance with 29 CFF	R 1910.1200 and R	egulation (EC)
		Section 16. Oth	ner Informatio	on	
Revision Date:		01/25/2020			
Additional Infor	mation About	No data available.			
This Product:					
		their particular purposes.			