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		acu	ording to Regulation (EC) No. 1907		·) (= ·) · · · · · = · = · = ·	-			
		Section 1.	Identification of the Substan	ce/Mixture and o	f the Company/U	ndertaking			
1.1	Product C	ode:	23873						
	Product N	ame:	Brivaracetam						
	Synonyms	3:	.alpha.S-ethyl-2-oxo-4R-p	propyl-1-pyrrolidine	acetamide; BRV; l	JCB 34714;			
1.2	Relevant i	dentified uses c	of the substance or mixture a	nd uses advised	against:				
	Relevant	t identified uses	: For research use only, no	ot for human or vet	erinary use.				
1.3	Details of the Supplier of the Safety Data Sheet:								
	Compan	y Name:	Cayman Chemical Compa	any					
			1180 E. Ellsworth Rd.						
	Wab aita	address:	Ann Arbor, MI 48108 www.caymanchem.com						
	Informat		Cayman Chemical Compa	201/	±1 (73)	4)971-3335			
		y telephone nur		any	τı (73·	4)97 1-3333			
1.4	-	ncy Contact:	CHEMTREC Within USA	and Canada:	1 (90	0)424-9300			
	Emerger	icy contact.	CHEMTREC Outside US/		-	3)527-3887			
						0,027 0007			
			Section 2. Haz	ards Identif	ication				
2.1	Classificat	tion of the Subs	tance or Mixture:						
	Acute To	oxicity: Oral, Ca	tegory 4						
			Acute Toxicity: Oral, Category 4						
2.2	Label Elen	hents:							
2.2	GHS Sig GHS Haz	nal Word: zard Phrases:	Warning						
2.2	GHS Sig GHS Haz H302: Ha	nal Word: zard Phrases: armful if swallowe	ed.						
2.2	GHS Sig GHS Haz H302: Ha GHS Pre	nal Word: zard Phrases: armful if swallowe ecaution Phrase	ed. <b>s:</b>						
2.2	GHS Sig GHS Haz H302: Ha GHS Pre P264: W	nal Word: zard Phrases: armful if swallowe caution Phrase fash {hands} thore	ed. <b>s:</b> oughly after handling.						
2.2	GHS Sig GHS Haz H302: Ha GHS Pre P264: W GHS Res	nal Word: zard Phrases: armful if swallowe ecaution Phrase ash {hands} thore sponse Phrases	ed. <b>s:</b> oughly after handling. <b>::</b>	or doctor/physiciar	n if you feel unwell.				
2.2	GHS Sig GHS Hai H302: Ha GHS Pre P264: W GHS Res P301+31	nal Word: zard Phrases: armful if swallowe ecaution Phrase ash {hands} thore sponse Phrases	ed. <b>s:</b> oughly after handling.	or doctor/physiciar	n if you feel unwell.				
2.2	GHS Sig GHS Haz H302: Ha GHS Pre P264: W GHS Res P301+31 P330: Ri	nal Word: zard Phrases: armful if swallowe caution Phrase ash {hands} thore sponse Phrases 12: IF SWALLOW nse mouth.	ed. <b>s:</b> bughly after handling. <b>::</b> /ED: Call a POISON CENTER (	or doctor/physiciar	n if you feel unwell.				
2.2	GHS Sig GHS Haz H302: Ha GHS Pre P264: W GHS Res P301+31 P330: Ri GHS Sto	nal Word: zard Phrases: armful if swallowe caution Phrase fash {hands} thore sponse Phrases 12: IF SWALLOW nse mouth. orage and Dispo	ed. <b>s:</b> bughly after handling. <b>::</b> /ED: Call a POISON CENTER (						
	GHS Sig GHS Haz H302: Ha GHS Pre P264: W GHS Res P301+31 P330: Ri GHS Sto Please re	nal Word: zard Phrases: armful if swallowe caution Phrase fash {hands} thore sponse Phrases 12: IF SWALLOW nse mouth. orage and Dispo	ed. s: oughly after handling. :: /ED: Call a POISON CENTER of sal Phrases:						
	GHS Sig GHS Haz H302: Ha GHS Pre P264: W GHS Res P301+31 P330: Ri GHS Sto Please re Adverse H	nal Word: zard Phrases: armful if swallowe caution Phrase ash {hands} thore sponse Phrases 12: IF SWALLOW nse mouth. orage and Dispo efer to Section 7	ed. <b>s:</b> bughly after handling. <b>:</b> /ED: Call a POISON CENTER of <b>sal Phrases:</b> for Storage and Section 13 for	Disposal informati	on.				
	GHS Sig GHS Haz H302: Ha GHS Pre P264: W GHS Res P301+31 P330: Ri GHS Sto Please re Adverse H	nal Word: zard Phrases: armful if swallowe caution Phrase fash {hands} thore sponse Phrases I2: IF SWALLOW inse mouth. orage and Dispo efer to Section 7 Human Health	ed. <b>s:</b> oughly after handling. <b>::</b> /ED: Call a POISON CENTER of <b>sal Phrases:</b> for Storage and Section 13 for Harmful if swallowed.	Disposal informati ne mucous membr	on. anes and upper res				
	GHS Sig GHS Haz H302: Ha GHS Pre P264: W GHS Res P301+31 P330: Ri GHS Sto Please re Adverse H	nal Word: zard Phrases: armful if swallowe caution Phrase fash {hands} thore sponse Phrases I2: IF SWALLOW inse mouth. orage and Dispo efer to Section 7 Human Health	ed. <b>s:</b> oughly after handling. <b>s:</b> /ED: Call a POISON CENTER of <b>sal Phrases:</b> for Storage and Section 13 for Harmful if swallowed. Material may be irritating to th	Disposal informati ne mucous membro or skin absorption	on. anes and upper res				
	GHS Sig GHS Haz H302: Ha GHS Pre P264: W GHS Res P301+31 P330: Ri GHS Sto Please re Adverse H	nal Word: zard Phrases: armful if swallowe caution Phrase fash {hands} thore sponse Phrases I2: IF SWALLOW inse mouth. orage and Dispo efer to Section 7 Human Health	ed. <b>s:</b> oughly after handling. <b>:</b> /ED: Call a POISON CENTER <b>sal Phrases:</b> for Storage and Section 13 for Harmful if swallowed. Material may be irritating to th May be harmful by inhalation	Disposal informati ne mucous membro or skin absorption ratory system irrita	on. anes and upper res tion.	spiratory tract.			
	GHS Sig GHS Haz H302: Ha GHS Pre P264: W GHS Res P301+31 P330: Ri GHS Sto Please re Adverse H	nal Word: zard Phrases: armful if swallowe caution Phrase fash {hands} thore sponse Phrases l2: IF SWALLOW inse mouth. orage and Dispo efer to Section 7 Human Health and Symptoms:	ed. <b>s:</b> oughly after handling. <b>:</b> /ED: Call a POISON CENTER of <b>sal Phrases:</b> for Storage and Section 13 for Harmful if swallowed. Material may be irritating to the May be harmful by inhalation May cause eye, skin, or respi	Disposal informati ne mucous membrory or skin absorption ratory system irrita , the toxicological	on. anes and upper res tion. properties have not	spiratory tract. t been thoroughly investigate			
	GHS Sig GHS Haz H302: Ha GHS Pre P264: W GHS Res P301+31 P330: Ri GHS Sto Please re Adverse H Effects ar	nal Word: zard Phrases: armful if swallowe caution Phrase fash {hands} thore sponse Phrases 12: IF SWALLOW nse mouth. orage and Dispo efer to Section 7 Human Health nd Symptoms:	ed. s: bughly after handling. ED: Call a POISON CENTER Sal Phrases: for Storage and Section 13 for Harmful if swallowed. Material may be irritating to th May be harmful by inhalation May cause eye, skin, or respi To the best of our knowledge, ion 3. Composition/	Disposal informati ne mucous membrory or skin absorption ratory system irrita , the toxicological	on. anes and upper res tion. properties have not	spiratory tract. t been thoroughly investigate			
2.3	GHS Sig GHS Haz H302: Ha GHS Pre P264: W GHS Res P301+31 P330: Ri GHS Sto Please re Adverse H Effects ar	nal Word: zard Phrases: armful if swallowe caution Phrase fash {hands} thore sponse Phrases 12: IF SWALLOW nse mouth. orage and Dispo efer to Section 7 Human Health nd Symptoms:	ed. s: oughly after handling. (ED: Call a POISON CENTER sal Phrases: for Storage and Section 13 for Harmful if swallowed. Material may be irritating to th May be harmful by inhalation May cause eye, skin, or respi To the best of our knowledge, ion 3. Composition/ ponents (Chemical Name)/	Disposal informati ne mucous membro or skin absorption ratory system irrita , the toxicological /Information	on. anes and upper res tion. properties have not on Ingredie	spiratory tract. t been thoroughly investigate nts			
RTEC	GHS Sig GHS Haz H302: Ha GHS Pre P264: W GHS Res P301+31 P330: Ri GHS Sto Please re Adverse H Effects ar	nal Word: zard Phrases: armful if swallowe caution Phrase ash {hands} thore sponse Phrases 12: IF SWALLOW nse mouth. orage and Dispo efer to Section 7 Human Health nd Symptoms: Sect	ed. s: oughly after handling. (ED: Call a POISON CENTER sal Phrases: for Storage and Section 13 for Harmful if swallowed. Material may be irritating to th May be harmful by inhalation May cause eye, skin, or respi To the best of our knowledge, ion 3. Composition/ ponents (Chemical Name)/	Disposal informati ne mucous membro or skin absorption ratory system irrita , the toxicological /Information	on. anes and upper res tion. properties have not On Ingredie EC No./	spiratory tract. t been thoroughly investigate 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 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,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an	<b>d</b> 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	Methods and Material Fo	r Contain spill and collect, as appropriate.
	Containment and Cleanir	hgTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		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	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:	

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	HEMICAL					
8.2	Exposure Controls:					
8.2.1	Engineering Controls					
	(Ventilation etc.):	evels below recommended exposure limits.				
8.2.2	Personal protection equipm	ient:				
	Eye Protection: S	afety glasses				
	Protective Gloves: C	Compatible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	Respiratory Equipment N	H approved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan D	o not take internally.				
	ce Practices: F	acilities storing or utilizing this material should be equipped with an eyewash and a safety shower				
	V	Vash thoroughly after handling.				
	Ν	lo 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 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 n	nm No data.				
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
	Specific Gravity (Water = 1)	No data.				
	Solubility in Water:	No data.				
	Solubility Notes:	~10 mg/ml in PBS (pH 7.2); ~16 mg/ml in EtOH; ~20 mg/ml in DMSO; ~14 mg/ml in DMF;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperature	e: No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weigh	t: C11H20N2O2 212.3				

Multi-region format



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			Section 10. Stability and					
10.1	Reactivit	iy:	No data available.					
10.2	Stability	:	Unstable [ ] Stable [ X ]					
10.3	Stability Note(s):		Stable if stored in accordance with information listed on the product insert.					
	Polymer	ization:	Will occur [ ] Will not occur [ X ]					
10.4	-		No data available.					
10.5	Incompa	tibility - Materials	s strong oxidizing agents					
	To Avoid	1:						
10.6	Hazardous Decomposition or Byproducts:		carbon dioxide carbon monoxide					
					Section 11. Toxicologica	l Informa	ation	
11.1	Informat	ion on	The toxicological effects of this product h	ave not beei	n thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	oonents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
2572								
3013	36-20-0	Brivaracetam		n.a.	n.a.	n.a.	n.a.	
3073	36-20-0	Brivaracetam				n.a.	n.a.	
			Section 12. Ecological			n.a.	n.a.	
12.1	36-20-0 Toxicity:		Section 12. Ecological Avoid release into the environment.	Informat	ion	n.a.	n.a.	
12.1	Toxicity:		Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water	Informat	ion	n.a.	n.a.	
	Toxicity: Persiste	nce and	Section 12. Ecological Avoid release into the environment.	Informat	ion	n.a.	n.a.	
12.1 12.2	Toxicity: Persiste Degrada	nce and bility:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available.	Informat	ion	n.a.	n.a.	
12.1	Toxicity: Persiste	nce and bility: mulative	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water	Informat	ion	n.a.	n.a.	
12.1 12.2 12.3	Toxicity: Persister Degrada Bioaccur Potentia	nce and bility: mulative I:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available.	Informat	ion	n.a.	n.a.	
12.1 12.2 12.3 12.4	Toxicity: Persister Degrada Bioaccur Potentia Mobility	nce and bility: mulative I: in Soil:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available.	Informat	ion	n.a.	n.a.	
12.1 12.2 12.3	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results	nce and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available.	Informat	ion	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB tent:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available.	Informat	ion	n.a.	n.a.	
12.1 12.2 12.3 12.4	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm	nce and bility: mulative I: in Soil: of PBT and vPvB	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available.	Informat	ion	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent: verse effects:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co	Informat may cause p nsiderat	ion ollution.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co	Informat may cause p nsiderat and federal r	ion ollution.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent: verse effects:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co	Informat may cause p nsiderat and federal r	ion ollution.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent: verse effects:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a	Informat may cause p nsiderat and federal r	ion ollution.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D	nce and bility: mulative I: in Soil: of PBT and vPvB nent: iverse effects:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport	Informat may cause p nsiderat and federal r	ion ollution.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D LAND T OT Proper	nce and bility: mulative l: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport	Informat may cause p nsiderat and federal r	ion ollution.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D	nce and bility: mulative l: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport	Informat may cause p nsiderat and federal r	ion ollution.	n.a.	n.a.	
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12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1 A	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D LAND T OT Proper OT Hazaro N/NA Num LAND T DR/RID SI	nce and bility: mulative l: in Soil: of PBT and vPvB nent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport Dot): Not dangerous goods.	Informat may cause p nsiderat and federal r	ion ollution.	n.a.	n.a.	
12.1 12.2 12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1 A U	Toxicity: Persister Degrada Bioaccur Potentia Mobility Results assessm Other ad Waste D LAND T OT Proper OT Hazaro N/NA Num	nce and bility: mulative l: in Soil: of PBT and vPvB hent: verse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: hber: RANSPORT (Euro hipping Name: :	Section 12. Ecological Avoid release into the environment. Runoff from fire control or dilution water No data available. No data available. No data available. No data available. No data available. No data available. No data available. Section 13. Disposal Co Dispose in accordance with local, state, a Section 14. Transport OOT): Not dangerous goods.	Informat may cause p nsiderat and federal r	ion ollution.	n.a.	n.a.	

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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 Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
357336-20-0	Brivaracetam		No	No	No	
CAS #	Hazardous Components (Chemical Name)		Other US EPA or	tate Lists	ł	
357336-20-0	Brivaracetam		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:	:	02/12/2018				
Additional Info	ormation About	No data available.				
This Product:						
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.				