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		Section 1	Identification of the Substar	nce/Mixture and of	f the Company/L	ndertaking		
					i the Company/O	nuentaking		
.1	Product		29727					
	Product		GRA Ex-25	hylothyl)ovolohoyyl	volebow diffet (trifluoromothow) aboar dominal corbon domi			
	Synonyms: N-[4-[[[trans-4-(1,1-dimethylethyl)cyclohexyl][[[4-(trifluoromethoxy)phenyl]amino]carbony methyl]benzoyl]betaalanine;							
.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.							
.3	Details of the Supplier of the Safety Data Sheet:							
	Company Name: Cayman Chemical C			bany				
			1180 E. Ellsworth Rd. Ann Arbor, MI 48108					
	Web s	ite address:	www.caymanchem.com					
	Inform		Cayman Chemical Comp	bany	+1 (73	4)971-3335		
.4	Emerge	ency telephone nu	mber:	-				
	-	gency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	00)424-9300		
			CHEMTREC Outside US	A and Canada:	+1 (70	03)527-3887		
			Section 2. Haz	zards Identifi	ication			
.1	Classifi	cation of the Subs	tance or Mixture:					
.2	Label El	lements:						
	GHS S	Signal Word:	None					
	GHS Hazard Phrases:							
	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.							
	GHS Precautionary Phrases:							
			-	stance or mixture is	s not classifiable ad	ccording to GHS.		
	GHS F		-	stance or mixture is	s not classifiable ad	ccording to GHS.		
	GHS F No ph	Precautionary Phr rases apply.	ases:	stance or mixture is	s not classifiable ad	ccording to GHS.		
	GHS F No phi GHS F	Precautionary Phr rases apply. Response Phrases	ases:	stance or mixture is	s not classifiable ad	ccording to GHS.		
	GHS F No phi GHS F No phi	Precautionary Phr rases apply. Response Phrases rases apply.	ases:	stance or mixture is	not classifiable ad	ccording to GHS.		
	GHS F No phi GHS F No phi GHS S	Precautionary Phr rases apply. Response Phrases rases apply. Storage and Dispo	ases:			ccording to GHS.		
	GHS F No phi GHS F No phi GHS S	Precautionary Phr rases apply. Response Phrases rases apply. Storage and Dispo	ases: s: osal Phrases:			ccording to GHS.		
3	GHS F No phi GHS F No phi GHS S Please	Precautionary Phr rases apply. Response Phrases rases apply. Storage and Dispo	ases: s: osal Phrases:	Disposal informatio	on.			
2.3	GHS F No phi GHS F No phi GHS S Please UFI: Advers	Precautionary Phr rases apply. Response Phrases rases apply. Storage and Dispo e refer to Section 7 e Human Health	ases: s: osal Phrases: for Storage and Section 13 for	Disposal information	on. anes and upper res			
2.3	GHS F No phi GHS F No phi GHS S Please UFI: Advers	Precautionary Phr rases apply. Response Phrases rases apply. Storage and Dispo e refer to Section 7	ases: s: sal Phrases: for Storage and Section 13 for Material may be irritating to t	⁻ Disposal information he mucous membra , ingestion, or skin	on. anes and upper res absorption.			
3	GHS F No phi GHS F No phi GHS S Please UFI: Advers	Precautionary Phr rases apply. Response Phrases rases apply. Storage and Dispo e refer to Section 7 e Human Health	ases: s: bsal Phrases: for Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	Disposal information he mucous membra , ingestion, or skin iratory system irrita	on. anes and upper res absorption. tion.			
3	GHS F No phi GHS F No phi GHS S Please UFI: Advers	Precautionary Phr rases apply. Response Phrases rases apply. Storage and Dispo e refer to Section 7 e Human Health and Symptoms:	ases: s: bsal Phrases: for Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	Disposal information he mucous membra , ingestion, or skin iratory system irrita e, the toxicological p	on. anes and upper res absorption. tion. properties have no	spiratory tract. t been thoroughly investigated		
CAS	GHS F No phi GHS F No phi GHS S Please UFI: Advers Effects	Precautionary Phr rases apply. Response Phrases rases apply. Storage and Dispo e refer to Section 7 e Human Health and Symptoms:	ases: s: sal Phrases: for Storage and Section 13 for Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge tion 3. Composition	Disposal information he mucous membra , ingestion, or skin iratory system irrita e, the toxicological p	on. anes and upper res absorption. tion. properties have no	spiratory tract. t been thoroughly investigated		



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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 A solid water stream may be inefficient.					
	Media:					
5.2	Flammable Properties an	i d No data available.				
	Hazards:					
		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.				
		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 Methods and Material For Contain spill and collect, as appropriate.						
	Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:					
		Section 7. Handling and Storage				
7.1						
	in Handling:	Avoid prolonged or repeated exposure.				
7.2		Neep 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				
	<u> </u>	levels below recommended exposure limits.				

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	(Ventilation etc.):						
8.2.2	Personal protection equipment:						
	Eye Protection: Sa	glasses					
	Protective Gloves: Co	tible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment NIC	H approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do	ot take internally.					
	ce Practices: Fa	ties storing or utilizing this material should be equipped with an eyewash and a safety shower.					
	Wa	n thoroughly after handling.					
	No	ata available.					
	Sect	ion 9. Physical and Chemical Properties					
9.1	Information on Basic Physica	I 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 mi	n No data.					
	Hg):						
	Vapor Density (vs. Air = 1):	No data.					
	Specific Gravity (Water = 1):	No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	~0.1 mg/ml in a 1:8 solution of DMSO:PBS (pH 7.2); ~10 mg/ml in EtOH; ~25 mg/ml in DMSO & DMF;					
	Octanol/Water Partition Coefficient:	No data.					
	Autoignition Pt:	No data.					
	Decomposition Temperature:	No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weight:	C29H36F3N3O5 563.6					
	-						



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			Section 10. Stability a	nd Reacti	vity				
10.1	Reactivit	y:	No data available.						
10.2	Stability	:	Unstable [] Stable [X]						
10.3 Stability Note(s):			Stable if stored in accordance with inf	ormation listed	on the product	insert.			
	Polymer	ization:	Will occur [] Will not occur [X] No data available.						
10.4	Conditio	ns To Avoid:							
10.5	Incompa	tibility - Materials	strong acids						
	To Avoid:		strong bases						
			strong oxidizing agents						
			strong reducing agents						
10.6	Hazardo		No data available.						
		osition or							
	Byprodu	cts:							
			Section 11. Toxicologi	cal Informa	ation				
11.1	Informat		The toxicological effects of this produced	ct have not beer	n thoroughly st	udied.			
	Toxicolo	gical Effects:							
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
3079	983-31-9	GRA Ex-25		n.a.	n.a.	n.a.	n.a.		
			Section 12. Ecologica	al Informat	ion	·	·		
12.1									
	· · · · · · · · · · · · · · · · · · ·		Runoff from fire control or dilution water may cause pollution.						
12.2	Persistence and		No data available.						
	Degrada	bility:							
12.3	Bioaccumulative		No data available.						
	Potentia	l:							
12.4	Mobility	in Soil:	No data available.						
12.5	Results	of PBT and vPvB	3 No data available.						
	assessm	ent:							
12.6	Other ad	verse effects:	No data available.						
			Section 13. Disposal (Considerat	ions				
13.1	Wasto D	isposal Method:	Dispose in accordance with local, stat						
	Waste D		•		•				
1			Section 14. Transpo	it iniormat	1011				
		RANSPORT (US D	OOT):						
14.1									
D	OT Proper	Shipping Name:	Not dangerous goods.						
D D	OT Proper OT Hazaro	l Class:							
D D U	OT Proper OT Hazarc N/NA Num	l Class: ber:	Not dangerous goods.						
D D U 14.1	OT Proper OT Hazard N/NA Num LAND TI	l Class: ber: RANSPORT (Euro	Not dangerous goods. pean ADR/RID):						
D D U 14.1 A	OT Proper OT Hazard N/NA Num LAND TI DR/RID St	l Class: ber: RANSPORT (Euro lipping Name:	Not dangerous goods.						
D U 14.1 A U	OT Proper OT Hazard N/NA Num LAND TI DR/RID Sh	l Class: ber: RANSPORT (Euro iipping Name: :	Not dangerous goods. pean ADR/RID):						
D U 14.1 A U	OT Proper OT Hazard N/NA Num LAND TI DR/RID St	l Class: ber: RANSPORT (Euro iipping Name: :	Not dangerous goods. pean ADR/RID):						
D U 14.1 A U	OT Proper OT Hazard N/NA Num LAND TI DR/RID Sh	l Class: ber: RANSPORT (Euro iipping Name: :	Not dangerous goods. pean ADR/RID):						
D U 14.1 A U	OT Proper OT Hazard N/NA Num LAND TI DR/RID Sh	l Class: ber: RANSPORT (Euro iipping Name: :	Not dangerous goods. pean ADR/RID):						
D U 14.1 A U	OT Proper OT Hazard N/NA Num LAND TI DR/RID Sh	l Class: ber: RANSPORT (Euro iipping Name: :	Not dangerous goods. pean ADR/RID):				Aulti-ragion		

	SAFET	Y DATA SHE	EET	Page: 5 of 5		
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ANSPORT (ICAO/I	ATA):					
Shipping Name:	Not dangerous goods.					
r: ss:	Packing Group:					
nsport	Transport in accordance with le	ocal, state, and fede	eral regulations.			
	Section 15. Regu	latory Inform	ation			
		of 1986) Lists				
Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
GRA Ex-25		No	No	No		
Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
GRA Ex-25		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
	Section 16. Ot	her Informati	on			
	02/29/2020					
rmation About	No data available.					
cy or Disclaimer:	currently available to us. Howe express or implied, with respec	ver, we make no wa t to such information	arranty of merchanta n, and we assume r	ability or any other warranty, no liability resulting from its		
	Shipping Name: r: ss: nsport uperfund Amendm Hazardous Com GRA Ex-25 Hazardous Com GRA Ex-25 ormation rmation About	GI ANSPORT (ICAO/IATA): Shipping Name: Not dangerous goods. r: ss: nsport Transport in accordance with I Section 15. Regu uperfund Amendments and Reauthorization Act Hazardous Components (Chemical Name) GRA Ex-25 Hazardous Components (Chemical Name) GRA Ex-25 Hazardous Components (Chemical Name) GRA Ex-25 Hazardous Components (Chemical Name) GRA Ex-25 No. 1272/2008. Section 16. Ot 02/29/2020 rmation About No data available. cy or Disclaimer: DISCLAIMER: This information currently available to us. Howe express or implied, with respect use. Users should make their	GRA Ex-25 ANSPORT (ICAO/IATA): Shipping Name: Not dangerous goods. r: Packing Grass: nsport Transport in accordance with local, state, and feder Section 15. Regulatory Inform uperfund Amendments and Reauthorization Act of 1986) Lists Hazardous Components (Chemical Name) S. 302 (EHS) GRA Ex-25 No Hazardous Components (Chemical Name) Other US EPA of CAA HAP,ODC: PROP.65: No GRA Ex-25 CAA HAP,ODC: PROP.65: No ormation This SDS was prepared in accordance with 29 CFI No.1272/2008. OZ/29/2020 Transtor About No data available. OS/29/2020 Transtor About No data available. USCLAIMER: This information is believed to be ad currently available to us. However, we make no wat express or implied, with respect to such information use. Users should make their own investigations to	ANSPORT (ICAO/IATA): Shipping Name: Not dangerous goods. r: Packing Group: ss: nsport Transport in accordance with local, state, and federal regulations. Section 15. Regulatory Information apperfund Amendments and Reauthorization Act of 1986) Lists Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ GRA Ex-25 No No Hazardous Components (Chemical Name) Other US EPA or State Lists GRA Ex-25 CAA HAP,ODC: No; CWA NPDES PROP.65: No Dormation This SDS was prepared in accordance with 29 CFR 1910.1200 and R No.1272/2008. Section 16. Other Information 02/29/2020 rmation About No data available. currently available to us. However, we make no warranty of merchanta express or implied, with respect to such information, and we assume r use. users should make their own investigations to determine the suit		

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