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	accordi	ng to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83	0 and US OSHA HCS 2015						
	Section 1.	Identification of the Substance/Mixture and of th	ne Company/Undertaking						
1.1	Product Code: Product Name: Synonyms:	25945 Dios-Arg (trifluoroacetate salt) (3.beta.,25R)-3-[6-[[(2S)-2-amino-5-[(aminoimi spirost-5-en-3-ol, bis(2,2,2-trifluoroacetate);							
1.2	Relevant identified uses of the substance or mixture and uses advised against:								
	Relevant identified uses	For research use only, not for human or vetering	nary use.						
1.3	Details of the Supplier of the Safety Data Sheet:								
	Company Name:	Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	1180 E. Ellsworth Rd.						
	Web site address:	www.caymanchem.com							
	Information:	Cayman Chemical Company	+1 (734)971-3335						
1.4	Emergency telephone nur	nber:							
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887						
		Section 2. Hazards Identification	ation						
2.1	Classification of the Subs	tance or Mixture:							
	Flammable Liquids, Cat	egory 2							
2.2	Label Elements:								
	GHS Signal Word: GHS Hazard Phrases:	Danger							
	H225: Highly flammable I	iquid and vapor.							
	GHS Precaution Phrase	s:							
	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking.								
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.								
	GHS Response Phrases:								
	P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.								
	GHS Storage and Disposal Phrases:								
		for Storage and Section 13 for Disposal information.							
2.3	Adverse Human Health	Material may be irritating to the mucous membrane							
	Effects and Symptoms:	May be harmful by inhalation, ingestion, or skin absorption.							
		May cause eye, skin, or respiratory system irritatio To the best of our knowledge, the toxicological pro							



Multi-region format

CAS # / RTECS #		Hazardous Components (Chemical Name)/ REACH Registration No.		Concentration	EC No./ EC Index No.	GHS Classification	
18073 NA	807353-31-6 Dios-Arg (trifluoroac		etate salt)	1.0 % 99.0 %	NA NA 200-578-6 603-002-00-5	No data available.	
64-17-5 Ethyl alcohol KQ6300000 01-2119457610-43						Flam. Liq. 2: H225	
		•	Section 4. Fi	rst Aid Meas	ures	•	
4.1	Descriț Measu	otion of First Aid res:					
	In Case	e of Inhalation:	Remove to fresh air. If not br Get immediate medical atten		al respiration or giv	ve oxygen by trained personnel	
	In Case	e of Skin Contact:	Immediately wash skin with s clothing. Get medical attention			5 minutes. Remove contaminate efore reuse.	
	In Case	of Eye Contact:	Hold eyelids apart and flush and tested by medical person		water for at least 1	5 minutes. Have eyes examine	
	In Case	e of Ingestion:	Wash out mouth with water p unconscious person. Get me medical personnel.	-	-	ive anything by mouth to an ng unless directed to do so by	
4.2	=	, Both Acute and	May cause anemia, cough, C (weakness, exhaustion), live	-		-	
			Section 5. Fire	Fighting Me	asures		
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam,	carbon dioxide, wate	er, or dry chemical	spray.	
	Media:		Use water spray to cool fire-	exposed containers			
	Unsuita Media:	able Extinguishing	A solid water stream may be	inefficient.			
5.2	Flamm	able Properties an	d Can release vapors that forn	n explosive mixtures	s at temperatures a	at or above the flashpoint.	
	Hazard	s:	Container explosion may occ		ions.		
			Emits toxic fumes under fire				
			Sensitive to static discharge. Vapors can travel to a source		h hack		
			No data available.		STI DACK.		
	Flash F	94-	14.00 C Method Used: Cl	losed Cup			
		ive Limits:	LEL: 3.3% at 25.0 C	•	6 at 25.0 C		
	•	nition Pt:	363.00 C				
5.3	-		As in any fire, wear self-cont equivalent), and full protective	ve gear to prevent co	-		
			Note: Flammable as diluted	in ethanol.			



SAFETY DATA SHEET **Dios-Arg (trifluoroacetate salt)**

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		Section 6	. Accidenta	Release Measures					
6.1	Protective Precautions,	Avoid breathi	ng vapors and prov	vide adequate ventilation.					
		otective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirate							
	Emergency Procedures:								
6.2	Environmental								
0.2	Precautions:								
6.3	Methods and Material For	Contain snill :	and collect as ann	ropriate					
0.0		-		ntainer for disposal in accordance with local regula	ations				
	Up:	grianolor to a							
·	о р.			-					
				ing and Storage					
7.1	Precautions To Be Taken								
	in Handling:		ed or repeated exp						
			om sources of igniti						
				jainst static discharge.					
7.2	Precautions To Be Taken		-	nd flame.					
	in Storing:	•	er tightly closed.	tion listed on the number time out					
			dance with informa	tion listed on the product insert.					
	Other Precautions:	Hygroscopic							
	Sect	ion 8. Ex	posure Cont	trols/Personal Protection					
8.1	Exposure Parameters:								
CAS #	t Chemical Name	Jurisd	iction	Recommended Exposure Limits	Notations				
64-17	-5 Ethyl alcohol	ACGIH	I TLV	TLV: 1000 ppm STEL: 1000 ppm					
		France	e VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)					
		OSHA	PELs	PEL: 1000 ppm					
		Britain	EH40	TWA: 1920 mg/m3 (1000 ppm)					
				STEL: ()					
8.2	Exposure Controls:								
8.2.1	Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn								
	(Ventilation etc.):		ecommended expo	osure limits.					
8.2.2	Personal protection equip								
	Eye Protection:	Safety glasses	5						
	Protective Gloves:	Compatible ch	nemical-resistant gl	oves					
	Other Protective Clothing:Lab coat								
	Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type):								
Work/Hygienic/Maintenan Do not take internally.									
	ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety sho								
		Wash thoroughly after handling.							
	No data available.								

Multi-region format



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		ction 9. Physical and Chemical Properties				
).1	Information on Basic Physical and Chemical Properties					
	Physical States:	[]Gas [X]Liquid []Solid				
	Appearance and Odor:	A solution in ethanol				
	pH:	No data.				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	14.00 C Method Used: Closed Cup				
	Evaporation Rate:	No data.				
	Flammability (solid, gas):	No data available.				
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C				
	Vapor Pressure (vs. Air or n	mm 43 MM_HG at 20.0 C				
	Hg):					
	Vapor Density (vs. Air = 1):					
	Specific Gravity (Water = 1)					
	Solubility in Water:	No data.				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	363.00 C				
	Decomposition Temperatur					
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weigh	nt: C39H67N5O5 • 2CF3COO 912.0				
		Section 10. Stability and Reactivity				
10.1	Reactivity:	No data available.				
10.2	Stability:	Jnstable [] Stable [X]				
		le if stored in accordance with information listed on the product insert.				
	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.				
10.3	• • • •	Stable if stored in accordance with information listed on the product insert. Will occur [] Will not occur [X]				
10.3	Polymerization: V	Will occur [] Will not occur [X]				
10.3 10.4	Polymerization:VConditions To Avoid:h	Nill occur [] Will not occur [X] neat, flames, and sparks				
10.3 10.4	Polymerization:VConditions To Avoid:hIncompatibility - Materials a	Nill occur [] Will not occur [X] neat, flames, and sparks				
10.3 10.4	Polymerization:VConditions To Avoid:hIncompatibility - Materials aTo Avoid:a	Vill occur [] Will not occur [X] neat, flames, and sparks alkali metals				
10.3 10.4	Polymerization: V Conditions To Avoid: h Incompatibility - Materials a To Avoid: a P	Will not occur [X] neat, flames, and sparks alkali metals ammonia				
	Polymerization: V Conditions To Avoid: h Incompatibility - Materials a To Avoid: a p s	Will occur [] Will not occur [X] neat, flames, and sparks alkali metals ammonia peroxides				
10.3 10.4 10.5	Polymerization:VConditions To Avoid:hIncompatibility - Materials aTo Avoid:apsHazardousc	Will occur [] Will not occur [X] neat, flames, and sparks alkali metals ammonia beroxides strong oxidizing agents				



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				n 11. Toxico					
11.1		ogical Effects: Toxicological	Ethanol - Tox (rat): 7,060 m (rabbit): 6,30 ppm (30m); I (6h); Inhalatia Ethanol - Inva and tumorige Only select R See actual en	egistry of Toxic Eff htry in RTECS for c CS Number: KQ63	DLO (man): nouse): 3,4 n LC50 (rat) uman): 2,5 29,300 ppr abbit): 500 g, mutagen, fects of Ch complete in 00000	1.14 ml/kg; 50 mg/kg; C 20,000 ppr 00 mg/m3 (2 m (7h); mg (24h) m natural pro- emical Subs formation.	Oral TDLO (r Oral LD50 (mo m (10h); Inha 20m); Inhalati ild; Skin (rabl duct, primary tances (RTE	nan): 650 mg/k buse): 10.5 ml/ lation TCLO (h on LC50 (rat): bit): 20 mg (24 irritant, reprod	(kg; Oral LD50 numan): 1,800 5,900 mg/m3 h) moderate; luctive effecto
		i	-	IARC Monograph	ns? NO		gulated? No	400	
		Hazardous Com		mical Name)		NTP	IARC	ACGIH	OSHA
	353-31-6	Dios-Arg (trifluoro	acetate salt)			n.a.	n.a.	n.a.	n.a.
04	-17-5	Ethyl alcohol				n.a.	1	A4	n.a.
			Section	on 12. Ecolo	gical Ir	oformation	on		
2.1	Toxicity	:		e into the environm					
			Runoff from f	ire control or dilutio	on water ma	ay cause po	llution.		
2.2	Persiste		No data avai	able.					
	Degrada	Degradability:							
	2.3 Bioaccumulative No data available.								
2.3			No data avai	able.					
	Potentia	l:							
12.4	Potentia Mobility	l: in Soil:	No data avai	able.					
	Potentia Mobility Results	l: in Soil: of PBT and vPvB	No data avai	able.					
12.4	Potentia Mobility Results assessm	l: in Soil: of PBT and vPvB	No data avail No data avai	able. lable.					
2.4 2.5	Potentia Mobility Results assessm	l: in Soil: of PBT and vPvB nent:	No data avail No data avai No data avai	able. lable.	sal Con	sideratio	ons		
2.4 2.5	Potentia Mobility Results assessm Other ad	l: in Soil: of PBT and vPvB nent:	No data avai No data avai No data avai Sectio	able. lable. lable.					
12.4 12.5 12.6	Potentia Mobility Results assessm Other ad	I: in Soil: of PBT and vPvB nent: Iverse effects:	No data avai No data avai No data avai Sectio Dispose in ac	^{able.} ^{able.} able. n 13. Dispos	al, state, ar	nd federal re	gulations.		
12.4 12.5 12.6	Potentia Mobility Results assessm Other ad	I: in Soil: of PBT and vPvB nent: Iverse effects:	No data avai No data avai No data avai Sectio Dispose in ad	able. lable. lable. n 13. Dispos	al, state, ar	nd federal re	gulations.		
12.4 12.5 12.6 13.1 14.1	Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope	I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name:	No data avai No data avai No data avai Sectio Dispose in ad Sect Dort):	able. lable. lable. n 13. Dispos	al, state, ar	nd federal re	gulations.		
12.4 12.5 12.6 13.1 14.1	Potentia Mobility Results assessm Other ad Waste D	I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name:	No data avai No data avai No data avai Sectio Dispose in ad Sect Dort):	able. lable. n 13. Dispos cordance with loca	al, state, ar <mark>sport Ir</mark>	nd federal rea	gulations.		
12.4 12.5 13.1 14.1	Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope	I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class:	No data avai No data avai No data avai Sectio Dispose in ac Sect Dot): Ethyl Alc	able. lable. n 13. Dispos cordance with loca ion 14. Tran	al, state, ar sport Ir LE LIQUID	nd federal rea	gulations. ON		
12.4 12.5 13.1 14.1 D(U)	Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard	I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	No data avai No data avai No data avai Sectio Dispose in ac Sect DOT): Ethyl Alc 3 UN1170	able. able. n 13. Dispose cordance with loca ion 14. Tran ohol Solution FLAMMAB	al, state, ar sport Ir LE LIQUID	nd federal re	gulations. ON	I	
12.4 12.5 13.1 14.1 D(U)	Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Num	I: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber:	No data avai No data avai No data avai Sectio Dispose in ad Sect Dispose in ad UN1170	able. able. n 13. Dispos cordance with loca ion 14. Tran ohol Solution FLAMMAB	al, state, ar sport Ir LE LIQUID	nd federal re	gulations. ON		
12.4 12.5 13.1 14.1 UI 14.1 A	Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Num	I: in Soil: of PBT and vPvB hent: Iverse effects: isposal Method: RANSPORT (US I r Shipping Name: d Class: nber: RANSPORT (Euro hipping Name:	No data avai No data avai No data avai Sectio Dispose in ad Sect Dispose in ad UN1170	able. able. n 13. Dispose cordance with loca ion 14. Tran ohol Solution FLAMMAB	al, state, ar Sport Ir LE LIQUID Pac	nd federal re	gulations. DN	 	



14.3 AIR TRA	ANSPORT (ICAO/I	IATA):						
ICAO/IATA Shipping Name:		Ethyl Alcohol Solution						
UN Number:		1170	Packing Group:		II			
Hazard Class:		3 - FLAMMABLE LIQUID	IATA Classification:		3			
Additional Tran	nsport	Transport in accordance with local, state, and federal regulations.						
Information:		When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of						
		E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.						
		Therefore packaging does not ha	ave to be labeled as	Dangerous Goods/Ex	cepted Quantity.			
		Section 15. Regula	atory Informat	ion				
EPA SARA (Su	perfund Amendm	nents and Reauthorization Act o	f 1986) Lists					
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
1807353-31-6	Dios-Arg (trifluoro	pacetate salt)	No	No	No			
64-17-5	Ethyl alcohol		No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	itate Lists				
1807353-31-6	Dios-Arg (trifluoro	pacetate salt)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
64-17-5	Ethyl alcohol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No					
Regulatory Info	rmation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)						
Statement:		No.1272/2008.						
		Section 16. Oth	er Informatior)				
Revision Date:		12/22/2018						
Additional Infor	mation 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.						