

Revision: 02/19/2017

	Section 1	Identification of the Substance/Mixture and of the	ne Company/Undertaking				
			ie eeniparij, endertaking				
.1	Product Code: Product Name:	21420 5'-N-Ethylcarboxamidoadenosine					
		-	ta Dribofuranuranamida: NECA:				
•	Synonyms: 1-(6-amino-9H-purin-9-yl)-1-deoxy-N-ethylbetaD-ribofuranuronamide; NECA;						
.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.Details of the Supplier of the Safety Data Sheet:						
1.3							
	Company Name:	Cayman Chemical Company					
		1180 E. Ellsworth Rd.					
		Ann Arbor, MI 48108					
	Web site address:	www.caymanchem.com					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
.4	Emergency telephone nui						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identific	ation				
.1	Classification of the Subs	tance or Mixture:					
	Acute Toxicity: Oral, Category 2						
.2	Label Elements:						
		_					
	GHS Signal Word:	Danger					
	GHS Hazard Phrases:	Danger					
	GHS Hazard Phrases: H300: Fatal if swallowed.						
	GHS Hazard Phrases: H300: Fatal if swallowed. GHS Precaution Phrase	s:					
	GHS Hazard Phrases: H300: Fatal if swallowed. GHS Precaution Phrase P264: Wash {hands} thor	s: oughly after handling.					
	GHS Hazard Phrases: H300: Fatal if swallowed. GHS Precaution Phrase P264: Wash {hands} thor GHS Response Phrases	s: oughly after handling. ::					
	GHS Hazard Phrases: H300: Fatal if swallowed. GHS Precaution Phrase P264: Wash {hands} thor GHS Response Phrases P301+310: IF SWALLOW	s: oughly after handling.	r/physician.				
	GHS Hazard Phrases: H300: Fatal if swallowed. GHS Precaution Phrase P264: Wash {hands} thor GHS Response Phrases P301+310: IF SWALLOW P330: Rinse mouth.	s: oughly after handling. :: /ED: Immediately call a POISON CENTER or doctor	r/physician.				
	GHS Hazard Phrases: H300: Fatal if swallowed. GHS Precaution Phrase P264: Wash {hands} thor GHS Response Phrases P301+310: IF SWALLOW P330: Rinse mouth. GHS Storage and Dispo	s: oughly after handling. :: /ED: Immediately call a POISON CENTER or doctor sal Phrases:					
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Section 3. Composition/Information on Ingredients								
CAS # / RTECS #		Hazardous Com REACH Registra	onents (Chemical Name)/ on No.	Concentration 100.0 %	EC No./ EC Index No.	GHS Classification		
	20-39-9 32000	Adenosine-5'-(n-ethylcarboxamide)			NA NA	Acute Tox.(O) 2: H300		
			Section 4. Fi	rst Aid Meas	ures			
4.1	4.1 Description of First Aid Measures:							
	In Case	e of Inhalation:	Remove to fresh air. If not bre	eathing, give artifici	al respiration or giv	ve oxygen by trained personnel.		
			Get immediate medical attent	ion.				
	In Case	of Skin Contact:	-			minutes. Remove contaminated		
			clothing. Get medical attentio		-			
	In Case	of Eye Contact:			water for at least 1	5 minutes. Have eyes examined		
			and tested by medical persor					
	In Case	e of Ingestion:	Wash out mouth with water p	-	-	ve anything by mouth to an ng unless directed to do so by		
			medical personnel.			ig unless directed to do so by		
			-		0.01180.0			
			Section 5. Fire					
5.1		e Extinguishing	Use alcohol-resistant foam, o		-	spray.		
	Media:		Use water spray to cool fire-e	-				
		Unsuitable Extinguishing A solid water stream may be inefficient.						
5.0	Media:	able Dranautice au	ANa data available					
5.2	Flammable Properties andNo data available. Hazards:							
	nazaru	5.	No data available.					
	Flash P	94-	No data.					
		ive Limits:	LEL: No data.	UEL: No d	lata			
	-	nition Pt:	No data.					
5.3	-		s: As in any fire, wear self-cont	ained breathing and	paratus pressure-d	emand (NIOSH approved or		
5.5	гие гіс	gnung instructions	equivalent), and full protectiv		-			
—								
			Section 6. Accider					
6.1		ive Precautions,	Avoid raising and breathing	-				
						eathing apparatus, or respirator,		
	-	ency Procedures:	and appropriate personal pro			, and neavy rubber gloves).		
6.2		nmental	Take steps to avoid release	into the environme	nt, if safe to do so.			
6.2	Precau		r Contain shill and collect as	appropriato				
			^r Contain spill and collect, as appropriate. gTransfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:	-						
	~~'		0 =					
			Section 7. Har					
7.1			Avoid breathing dust/fume/ga		ay.			
	in Hand	-	Avoid prolonged or repeated	-				
7.2			Keep container tightly closed					
	in Stori	ng:	Store in accordance with info	rmation listed on th	e product insert.			
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3.2 3.2.1 3.2.2	(Ventilation etc.):levelPersonal protection equipmenEye Protection:SafeProtective Gloves:ComOther Protective Clothing:LabRespiratory EquipmentNIOS(Specify Type):Work/Hygienic/MaintenanWork/Hygienic/MaintenanDomce Practices:FaciWas	ety glasses npatible chemical-resistant gloves coat SH approved respirator, as conditions warrant.		
3.2.1	Engineering ControlsUse(Ventilation etc.):levelPersonal protection equipmentEye Protection:SafeProtective Gloves:ComOther Protective Clothing: LabRespiratory EquipmentNIOS(Specify Type):Work/Hygienic/MaintenanWork/Hygienic/MaintenanDo mce Practices:FaciWas	Is below recommended exposure limits. t: ety glasses hpatible chemical-resistant gloves coat SH approved respirator, as conditions warrant. hot take internally. lities storing or utilizing this material should be equipped with an eyewash and a safety showe		
3.2.2	(Ventilation etc.):levelPersonal protection equipmenEye Protection:SafeProtective Gloves:ComOther Protective Clothing:LabRespiratory EquipmentNIOS(Specify Type):Work/Hygienic/MaintenanWork/Hygienic/MaintenanDomce Practices:FaciWas	Is below recommended exposure limits. t: ety glasses hpatible chemical-resistant gloves coat SH approved respirator, as conditions warrant. hot take internally. lities storing or utilizing this material should be equipped with an eyewash and a safety showe		
3.2.2	Personal protection equipmentEye Protection:SafeProtective Gloves:CommonOther Protective Clothing:LabRespiratory EquipmentNIOS(Specify Type):Work/Hygienic/Maintenan Dominice Practices:FaciWas	t: htty glasses hpatible chemical-resistant gloves coat SH approved respirator, as conditions warrant. hot take internally. lities storing or utilizing this material should be equipped with an eyewash and a safety showe		
	Eye Protection:SafeProtective Gloves:ComOther Protective Clothing:LabRespiratory EquipmentNIOS(Specify Type):Work/Hygienic/MaintenanWork/Hygienic/MaintenanDomce Practices:FaciWas	ety glasses npatible chemical-resistant gloves coat SH approved respirator, as conditions warrant. not take internally. lities storing or utilizing this material should be equipped with an eyewash and a safety showe		
	Protective Gloves: Com Other Protective Clothing:Lab Respiratory Equipment NIOS (Specify Type): Work/Hygienic/Maintenan Dom ce Practices: Faci Was	npatible chemical-resistant gloves coat SH approved respirator, as conditions warrant. not take internally. lities storing or utilizing this material should be equipped with an eyewash and a safety showe		
	Other Protective Clothing:LabRespiratory EquipmentNIOS(Specify Type):Work/Hygienic/MaintenanWork/Hygienic/MaintenanDo nce Practices:FaciWas	coat SH approved respirator, as conditions warrant. not take internally. lities storing or utilizing this material should be equipped with an eyewash and a safety showe		
	Respiratory Equipment NIOS (Specify Type): Work/Hygienic/Maintenan Dom ce Practices: Faci Was	SH approved respirator, as conditions warrant. not take internally. lities storing or utilizing this material should be equipped with an eyewash and a safety showe		
	(Specify Type): Work/Hygienic/Maintenan Dom ce Practices: Faci Was	not take internally. lities storing or utilizing this material should be equipped with an eyewash and a safety showe		
	Work/Hygienic/Maintenan Dom ce Practices: Faci Was	lities storing or utilizing this material should be equipped with an eyewash and a safety showe		
	ce Practices: Faci Was	lities storing or utilizing this material should be equipped with an eyewash and a safety showe		
	Was			
		sh thoroughly after handling.		
	No d			
		data available.		
	Section	on 9. Physical and Chemical Properties		
).1 I	Information on Basic Physical a	and Chemical Properties		
	Physical States:	[]Gas []Liquid [X]Solid		
	Appearance and Odor:	A 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):			
	Vapor Density (vs. Air = 1):	No data.		
	Specific Gravity (Water = 1):	No data.		
	Solubility in Water:	No data.		
	Solubility Notes:	Soluble in: DMSO;		
	Octanol/Water Partition	No data.		
	Coefficient:			
	Autoignition Pt:	No data.		
	Decomposition Temperature:	No data.		
	Viscosity:	No data.		
.2 (Other Information			
	Percent Volatile:	No data.		
	Molecular Formula & Weight:	C12H16N6O4 308.3		



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			Section 10. Stability	and Reactiv	⁄ity		
10.1	1 Reactivity: No data available.						
10.2	Stability	:	Unstable [] Stable [X]				
10.3	Stability	Note(s):	Stable if stored in accordance with	information listed o	n the product	insert.	
	Polymer	ization:	Will occur [] Will not occur [>	<]			
10.4	Conditio	ns To Avoid:	No data available. Is strong oxidizing agents				
10.5	Incompa To Avoic	-					
10.6	Hazardous Decomposition or		carbon dioxide				
-			carbon monoxide				
	Byprodu	icts:	nitrogen oxides				
			Section 11. Toxicolog	gical Informa	tion		
11.1	Informat	ion on	The toxicological effects of this pro	duct have not been	thoroughly st	udied.	
	Toxicolo	gical Effects:	5'-N-Ethylcarboxamidoadenosine -	Toxicity Data: Sub	cutaneous TD	LO (mouse): 1	5.4 ug/kg;
			Intraperitoneal TDLO (mouse): 0.00	02 mg/kg;			
	Chronic	Toxicological	5'-N-Ethylcarboxamidoadenosine -	Investigated as a d	rug.		
	Effects:		Only select Registry of Toxic Effect	ts of Chemical Subs	stances (RTEC	CS) data is pre	sented here
			See actual entry in RTECS for com	plete information.			
			5'-N-Ethylcarboxamidoadenosine F	RTECS Number: VJ	2231700		
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
3592	20-39-9	Adenosine-5'-(n-e	ethylcarboxamide)	n.a.	n.a.	n.a.	n.a.
		•	Section 12. Ecologi	cal Informati	on	•	
12.1	Toxicity	:	Avoid release into the environment.				
			Runoff from fire control or dilution water may cause pollution.				
12.2	Persiste	nce and	No data available.				
Degradability:							
123	-	-	No data available				
12.3	Bioaccu	mulative	No data available.				
	Bioaccu Potentia	mulative I:					
12.4	Bioaccu Potentia Mobility	mulative I: in Soil:	No data available.				
12.4	Bioaccu Potentia Mobility Results	mulative I: in Soil: of PBT and vPvB					
12.4 12.5	Bioaccu Potentia Mobility Results assessm	mulative I: in Soil: of PBT and vPvB nent:	No data available. No data available.				
	Bioaccu Potentia Mobility Results assessm	mulative I: in Soil: of PBT and vPvB	No data available. No data available. No data available.	Considerati	ons		
12.4 12.5	Bioaccu Potentia Mobility Results assessm Other ad	mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	No data available. No data available.				



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Section 14. Transport Information						
14.1 LAND	TRANSPORT (US	DOT):				
DOT Prop	er Shipping Name	Toxic solids, organic, n.o.s. (5'-(N-Ethylcarboxamido)adenosine)				
DOT Haza	rd Class:	6.1 POISON				
UN/NA Nu	mber:	UN2811	Packing Grou	ıp:	II	
		~				
		POISON 6				
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):				
ADR/RID S	Shipping Name:	Toxic solids, organic, n.o.s	. (5'-(N-Ethylcarboxan	nido)adenosine)		
UN Numbe	er:	2811	Packing Group:		II	
Hazard Cla	ass:	6.1 - POISON				
14.3 AIR TR	ANSPORT (ICAO/	IATA):				
ICAO/IATA	A Shipping Name:	Toxic solids, organic, n.o.s	. (5'-(N-Ethylcarboxan	nido)adenosine)		
UN Numbe	er:	2811	Packing Grou	ıp:	II	
Hazard Cla	ass:	6.1 - POISON	IATA Classifi	cation:	6.1	
Additional Tra	insport	Transport in accordance with lo	ocal, state, and federa	l regulations.		
Information:		When sold in quantities of less	than or equal to 1 mL	, or 1 g, with an Exce	pted Quantity Code of	
		E1, E2, E4, or E5, this item me				
		Therefore packaging does not	have to be labeled as	Dangerous Goods/E	xcepted Quantity.	
		Section 15. Regu	latory Informa	tion		
EPA SARA (S	uperfund Amendn	nents and Reauthorization Act	of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
35920-39-9	Adenosine-5'-(n-	ethylcarboxamide)	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	State Lists		
35920-39-9	Adenosine-5'-(n-	ethylcarboxamide)	CAA HAP,ODC: N PROP.65: No	o; CWA NPDES: No	; TSCA: No; CA	
Regulatory Inf	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)				
Statement:		No.1272/2008.				
		Section 16. Ot	her Information	า		
Revision Date:		02/19/2017				
Additional Info	ormation About	No data available.				
This Product:						
	cy 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.				

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