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Revision: 02/11/2020 Supersedes Revision: 05/17/2016

		accordin	g to Regulation (EC) No. 1907/2006 as a			2015	
			dentification of the Substar				
.1	Produc		19154				
		t Name:	6-thio-2'-Deoxyguanosine	٩			
	Synony		6-tnio-2-Deoxyguanosine 2'-deoxy-6-thio-guanosine; 6-thio-dG; NSC 71261; .betaThioguanine deoxyriboside;				
.2						,	
.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		any Name:	Cayman Chemical Comp	any			
	Comp		1180 E. Ellsworth Rd.	Jany			
			Ann Arbor, MI 48108				
	Web s	site address:	www.caymanchem.com				
	Inform	nation:	Cayman Chemical Comp	bany	+1 (73-	4)971-3335	
1.4	Emerge	ency telephone nur	nber:				
	Emer	gency Contact:	CHEMTREC Within USA	and Canada:	•	0)424-9300	
			CHEMTREC Outside US	SA and Canada:	+1 (70	3)527-3887	
			Section 2. Haz	zards Identifi	cation		
2.1	Classifi	cation of the Subs	ance or Mixture:				
		cation of the Subst lements:	ance or Mixture:				
	Label E	lements:					
	Label E GHS \$	lements: Signal Word:	ance or Mixture: None				
	Label E GHS S GHS	lements: Signal Word: Hazard Phrases:	None	stance or mixture is	not classifiable ac	cording to GHS.	
	Label E GHS S GHS Based	lements: Signal Word: Hazard Phrases: I on evaluation of cu	None rrently available data this sub	stance or mixture is	not classifiable ac	cording to GHS.	
	Label E GHS S GHS Based GHS	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra	None rrently available data this sub	stance or mixture is	not classifiable ac	ccording to GHS.	
	Label E GHS S GHS Based GHS No ph	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra rases apply.	None rrently available data this sub ses:	stance or mixture is	not classifiable ac	cording to GHS.	
	Label E GHS GHS Based GHS No ph GHS	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra	None rrently available data this sub ses:	stance or mixture is	not classifiable ac	ccording to GHS.	
	Label E GHS GHS Based GHS No ph GHS No ph	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra Irases apply. Response Phrases Irases apply.	None rrently available data this sub ises:	stance or mixture is	not classifiable ac	cording to GHS.	
	Label E GHS Based GHS No ph GHS No ph GHS	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra rases apply. Response Phrases rases apply. Storage and Dispos	None rrently available data this sub ises:			ccording to GHS.	
	Label E GHS Based GHS No ph GHS No ph GHS	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra rases apply. Response Phrases rases apply. Storage and Dispos	None rrently available data this sub ises: : sal Phrases:			cording to GHS.	
2.2	Label E GHS S GHS Based GHS No ph GHS Pleas UFI:	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra rases apply. Response Phrases rases apply. Storage and Dispos	None rrently available data this sub- ises: : sal Phrases: for Storage and Section 13 for	Disposal informatio	on.	-	
2.2	Label E GHS S GHS Based GHS No ph GHS Pleas UFI: Advers	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra Irases apply. Response Phrases Irases apply. Storage and Dispose e refer to Section 7 f Storage Human Health	None rrently available data this sub ises: : sal Phrases:	⁻ Disposal information he mucous membra	on. ines and upper res	-	
2.2	Label E GHS S GHS Based GHS No ph GHS Pleas UFI: Advers	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra arases apply. Response Phrases arases apply. Storage and Dispose e refer to Section 7 f	None rrently available data this sub- ises: al Phrases: for Storage and Section 13 for Material may be irritating to t	⁻ Disposal informatio he mucous membra i, ingestion, or skin a	on. anes and upper res absorption.	-	
2.2	Label E GHS S GHS Based GHS No ph GHS Pleas UFI: Advers	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra Irases apply. Response Phrases Irases apply. Storage and Dispose e refer to Section 7 f Storage Human Health	None rrently available data this sub- ses: sal Phrases: for Storage and Section 13 for Material may be irritating to t May be harmful by inhalation	Disposal information he mucous membra n, ingestion, or skin a iratory system irrita	on. tines and upper res absorption. tion.	spiratory tract.	
2.2	Label E GHS S GHS Based GHS No ph GHS Pleas UFI: Advers	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra arases apply. Response Phrases arases apply. Storage and Dispose e refer to Section 7 f and Symptoms:	None rrently available data this sub- ises: 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	Disposal information he mucous membra i, ingestion, or skin a iratory system irritat e, the toxicological p	on. Ines and upper res absorption. tion. iroperties have not	spiratory tract. t been thoroughly investigate	
2.1 2.2 2.3	Label E GHS S GHS Based GHS No ph GHS Pleas UFI: Advers Effects	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra arases apply. Response Phrases arases apply. Storage and Dispose e refer to Section 7 f se Human Health and Symptoms:	None rrently available data this sub- ses: al 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 ion 3. Composition	Disposal information he mucous membra i, ingestion, or skin a iratory system irritat e, the toxicological p /Information	on. anes and upper res absorption. tion. oroperties have not on Ingredie	spiratory tract. t been thoroughly investigate nts	
2.2 2.3	Label E GHS S GHS Based GHS No ph GHS Pleas UFI: Advers Effects	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra arases apply. Response Phrases arases apply. Storage and Dispose e refer to Section 7 f se Human Health and Symptoms:	None rrently available data this sub- ses: al 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 ion 3. Composition onents (Chemical Name)/	Disposal information he mucous membra i, ingestion, or skin a iratory system irritat e, the toxicological p	on. Ines and upper res absorption. tion. iroperties have not	spiratory tract. t been thoroughly investigate	
2.2 2.3 CAS	Label E GHS GHS Based GHS No ph GHS Pleas UFI: Advers Effects	lements: Signal Word: Hazard Phrases: d on evaluation of cu Precautionary Phra rases apply. Response Phrases rases apply. Storage and Dispose e refer to Section 7 f and Symptoms: Sect Hazardous Comp	None rrently available data this sub- ises: Sal Phrases: Tor 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 iON 3. Composition onents (Chemical Name)/ ion No.	Disposal information he mucous membra i, ingestion, or skin a iratory system irritat e, the toxicological p /Information	on. Ines and upper res absorption. tion. iroperties have not ON INGREDIE	spiratory tract. t been thoroughly investigate nts	



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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:	A solid water stream may be inefficient.
5.2	Flammable Properties an	dNo 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	: 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 and	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	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
6.3		r Contain spill and collect, as appropriate.
		gTransfer 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		Keep 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



	(Ventilation etc.):						
8.2.2	,	nmont:					
8.2.2	Personal protection equi						
	Eye Protection:	y glasses					
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenar	-					
	ce Practices:	ilities storing or utilizing this material should be equipped with an eyewash and a safety shower.					
		Wash thoroughly after handling.					
		No data available.					
	S	ection 9. Physical and Chemical Properties					
9.1	Information on Basic Phy	sical 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 o						
	Hg):						
	Vapor Density (vs. Air = 1	No data. No data. No data.					
	Specific Gravity (Water =						
	Solubility in Water:						
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2); ~20 mg/ml in DMSO & DMF;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperat	t ure: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Wei	ght: C10H13N5O3S 283.3					
		Section 10. Stability and Reactivity					
10.1	Reactivity:	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.					
	Polymerization:	Will occur [] Will not occur [X]					
10.4	Conditions To Avoid:	No data available.					
10.4	Incompatibility - Materials						
10.0	To Avoid:						
10.6	Hazardous	carbon dioxide					
		carbon monoxide					
		Multi-region format					



Multi-region format

	Decomp	osition or	nitrogen oxides						
	Byprodu	icts:	sulfur oxides						
			Section 11. Toxicologica	l Informa	ation				
11.1	Informat	ion on	The toxicological effects of this product h	ave not beer	n thoroughly st	udied.			
	Toxicolo	gical Effects:							
CAS	CAS # Hazardous Co		ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
78	9-61-7	9H-Purine-6(1H)-		n.a.	n.a.	n.a.	n.a.		
		2-amino-9-(2-dec	oxy-beta-D-erythro-pentofuranosyl)-						
			Section 12. Ecological	Informat	ion				
12.1	2.1 Toxicity:		Avoid release into the environment.						
			Runoff from fire control or dilution water	may cause p	ollution.				
12.2	Persiste		No data available.						
	Degrada	bility:							
12.3	Bioaccu		No data available.						
	Potentia								
12.4	Mobility		No data available.						
12.5			No data available.						
10.0	assessm								
12.6	Other ad	lverse effects:	No data available.						
			Section 13. Disposal Co	nsiderat	ions				
13.1	Waste D	isposal Method:	Dispose in accordance with local, state,	and federal re	egulations.				
			Section 14. Transport	Informat	ion				
14.1	LAND TI	RANSPORT (US I	от):						
D	OT Prope	r Shipping Name:	Not dangerous goods.						
D	OT Hazaro	d Class:							
U	N/NA Num	ıber:							
14.1	LAND TI	RANSPORT (Euro	opean ADR/RID):						
		nipping Name:	Not dangerous goods.						
_	N Number								
	azard Clas								
14.3		NSPORT (ICAO/I							
	AO/IATA	Shipping Name: 	Not dangerous goods.	acking Grou	n .				
_	azard Clas		F	acking Grou	h.				
	tional Trar		Transport in accordance with local, state	and federal	regulations.				
	mation:		······································	,					



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EBA SABA (Superfund Amondm	Section 15. Regula	atory morma	ation		
EFA SARA (Superfullu Allenuli	nents and Reauthorization Act o	of 1986) Lists			
CAS # Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
789-61-7 9H-Purine-6(1H)- 2-amino-9-(2-dec I)-	thione, xy-beta-D-erythro-pentofuranosy	No	No	No	
CAS # Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists			
	9H-Purine-6(1H)-thione, 2-amino-9-(2-deoxy-beta-D-erythro-pentofuranosy I)-		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	er Informatio	n		
Revision Date:	02/11/2020				
Additional Information About Fhis Product:	No data available.				
	use. Users should make their ov their particular purposes.	wn investigations to	determine the suit	ability of the information fo	