

Revision: 09/25/2017 Supersedes Revision: 08/15/2017

	CHEMICAL					Supersedes Revision: 08/15/2017			
		accord	ing to Regulation (EC) No. 190	7/2006 as amended b	y (EC) No. 1272/200	08			
		Section 1. Ide	entification of the Substan	ice/Mixture and of	the Company/U	ndertaking			
1.1	Produc	oduct Code:       22810         oduct Name:       cGAS (human recombinant)         nonyms:       C6orf150; 2'3'-cGAMP Synthase; cGAMP Synthase; h-cGAS; Cyclic GMP-AMP Synthase         2.7.7.86; Mab-21 domain containing protein 1; MB21D1;				Cyclic GMP-AMP Synthase; EC			
1.2	Releva	Relevant identified uses of the substance or mixture and uses advised against:							
	Relev	elevant identified uses: For research use only, not for human or veterinary use.							
1.3	Details	of the Supplier of the	Safety Data Sheet:						
	Comp	pany Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any					
	Web s	site address:	www.caymanchem.com						
	Inform	nation:	Cayman Chemical Comp	any	+1 (73	4)971-3335			
1.4	Emerge	ency telephone numb	er:						
	Emer	gency Contact:	CHEMTREC Within USA CHEMTREC Outside US						
			Section 2. Haz	zards Identifi	cation				
2.1	Classifi	ication of the Substar	ce or Mixture:						
2.2	Label E	lements:							
	GHS S	GHS Signal Word: None							
	GHS	GHS Hazard Phrases:							
	Based	d on evaluation of curre	ently available data this sub	stance or mixture is	not classifiable ad	ccording to GHS.			
	GHS	S Precaution Phrases:							
	No ph	hrases apply.							
	GHS	Response Phrases:							
	No ph	nrases apply.							
	GHS	Storage and Disposal	Phrases:						
			Storage and Section 13 for	Disposal informatio	on.				
2.3			aterial may be irritating to the	-		spiratory tract.			
	Effects	and Symptoms: M	ay be harmful by inhalation	, ingestion, or skin a	absorption.				
		M	ay cause eye, skin, or resp	iratory system irritat	tion.				
		Т	o the best of our knowledge	e, the toxicological p	roperties have no	t been thoroughly investigated.			
		Sectio	n 3. Composition	/Information	on Ingredie	nts			
CAS RTE		Hazardous Compon REACH Registration	ents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification			
NA NA		cGAS (human recombin	ant)	< 0.1 %	NA NA	No data available.			
736	5-45-9	HEPES, free acid		1.19 %	230-907-9	No data available.			
TL68	09000				NA				
	7-14-5 25000	Sodium chloride		1.75 %	231-598-3 NA	No data available.			
	-81-5 950000	Glycerol		10.0 %	200-289-5 NA	No data available.			
		Watar		87.06 %	231-791-2				
	2-18-5 10000	Water		87.00 %	NA	No data available.			



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		Section 4. Firs	t Aid Measures					
4.1	Description of First Aid							
	Measures:							
	In Case of Inhalation:	Remove to fresh air. If not breat Get immediate medical attention	hing, give artificial respiration or give oxygen by ti n.	ained personnel.				
	In Case of Skin Contact:	-	p and plenty of water for at least 15 minutes. Ren f symptoms occur. Wash clothing before reuse.	nove contaminated				
	In Case of Eye Contact:	Hold eyelids apart and flush eye and tested by medical personne	es with plenty of water for at least 15 minutes. Hav	e eyes examined				
	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 medical personnel.						
		Section 5. Fire F	ighting Measures					
5.1	Suitable Extinguishing	Use alcohol-resistant foam, car	bon 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 and	dNo data available.						
	Hazards:							
		No data available.						
	Flash Pt:	No data.						
	Explosive Limits:	LEL: No data.	UEL: No data.					
	Autoignition Pt:	No data.						
	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. Accidenta		]				
	Protective Precautions,	• •	st, and provide adequate ventilation.					
	<b>Protective Equipment and</b> As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, <b>Emergency Procedures:</b> and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).							
	Emergency Procedures:			bber gloves).				
	Environmental Precautions:	Take steps to avoid release into	o the environment, if safe to do so.					
		· Contain spill and collect, as app						
	Containment and Cleanin Up:	gTransfer to a chemical waste o	ontainer for disposal in accordance with local regu	lations.				
	Section 7. Handling and Storage							
<ul> <li>7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.</li> </ul>								
	in Handling: Avoid prolonged or repeated exposure.							
7.2	Precautions To Be Taken Keep container tightly closed.							
	in Storing:	Store in accordance with inform	ation listed on the product insert.					
	Sect	ion 8. Exposure Cor	trols/Personal Protection					
	Exposure Parameters:		1					
CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations				
56-81-	5 Glycerol	ACGIH TLV	TLV: 10 mg/m3					
				Multi-region format				



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	1		n: 08/15/2017		
	France VL	TWA: 10 mg/m3			
	OSHA PELs	PEL: 15 (dust); 5 (resp.) mg/m3			
	Britain EH40	TWA: 10 mg/m3 () STEL: ()			
ontrols:					
	rocess enclosures lo	cal exhaust ventilation, or other engineering controls to c	ontrol airbori		
	below recommended				
,					
Personal protection equipment:     Eye Protection: Safety glasses					
	patible chemical-resist	ant doves			
ctive Clothing:Lab c		an gioves			
-		as conditions warrant			
• •		, as conditions warrant.			
pe):	ttoko internally				
nic/Maintenan Do no		this material should be equipped with an eyewash and a	cofoty chow		
	thoroughly after hand		Salety SHOW		
	ata available.	inng.			
Sectio	on 9. Physical	and Chemical Properties			
on Basic Physical a	nd Chemical Propert	ies			
ates:	[]Gas [X]Liq	uid [] Solid			
e and Odor:	50 mM HEPES, pH	8, 300 mM sodium chloride, and 10% glycerol			
	8.0				
nt:	No data.				
nt:	No data.				
	No data.				
n Rate:	No data.				
y (solid, gas):	No data available.				
imits:	LEL: No data.	UEL: No data.			
sure (vs. Air or mm	No data.				
ity (vs. Air = 1):	No data.				
avity (Water = 1):	No data.				
Water:	No data.				
ter Partition	No data.				
n Pt:	No data.				
tion Temperature:	No data.				
	No data.				
nation					
atile:	No data.				
n Pt tior nati	:: i Temperature: on	t: No data. <b>Temperature:</b> No data. No data. <b>on</b>	t: No data. <b>Temperature:</b> No data. No data. <b>on</b>		



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			Section 10. Stability	and Reacti	vity			
10.1	Reactiv	ity:	No data available.					
10.2	Stability		Unstable [ ] Stable [ X ]					
10.3	-	/ Note(s):	Stable if stored in accordance with i		on the product	insert.		
	-	rization:	Will occur [ ] Will not occur [ X	]				
10.4		ons To Avoid:	No data available.					
10.5	Incomp To Avoi	atibility - Materials	No data available.					
10.6	Hazardo		No data available.					
10.0		position or						
	Byprod							
			Section 11. Toxicolog	ical Informa	ation			
11.1	Informa Toxicol	tion on ogical Effects:	The toxicological effects of this proc			udied.		
CAS		- +	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	NA	cGAS (human red		n.a.	n.a.	n.a.	n.a.	
736	5-45-9	HEPES, free acid		n.a.	n.a.	n.a.	n.a.	
764	7-14-5	Sodium chloride		n.a.	n.a.	n.a.	n.a.	
56	-81-5	Glycerol		n.a.	n.a.	n.a.	n.a.	
773	2-18-5	Water		n.a.	n.a.	n.a.	n.a.	
		ł	Section 12. Ecologic	al Informat	ion	ł		
12.1	Toxicity		ater may cause p	ollution.				
122	Persistence and       No data available.         Degradability:       Image: Compare the second							
12.2								
	Degrada	ability:	No data available.					
12.2 12.3	Degrada	ability: umulative						
	Degrada Bioaccu Potentia	ability: umulative						
12.3	Degrada Bioaccu Potentia Mobility	ability: umulative al:	No data available. No data available.					
12.3 12.4	Degrada Bioaccu Potentia Mobility	ability: imulative al: in Soil: of PBT and vPvB	No data available. No data available.					
12.3 12.4	Degrada Bioaccu Potentia Mobility Results assess	ability: imulative al: in Soil: of PBT and vPvB	No data available. No data available.					
12.3 12.4 12.5	Degrada Bioaccu Potentia Mobility Results assess	ability: umulative al: v in Soil: of PBT and vPvB ment:	No data available. No data available. No data available.	Considerat	ions			

Multi-region format



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Section 14. Transport Information							
14.1 LAND T	RANSPORT (US	DOT):					
DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number:							
14.1 LAND T	RANSPORT (Euro	opean ADR/RID):					
	hipping Name:	Not dangerous goods.					
UN Numbe	r:						
Hazard Cla	ss:						
14.3 AIR TR	ANSPORT (ICAO/	IATA):					
ICAO/IATA	Shipping Name:	Not dangerous goods.					
Additional Trai	nsport	Transport in accordance with lo	cal, state, and federa	l regulations.			
Information:							
		Section 15. Regul	atory Informa	tion			
EPA SARA (Su	perfund Amendm	nents and Reauthorization Act of	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
NA	cGAS (human re	combinant)	No	No	No		
7365-45-9	HEPES, free acid	1	No	No	No		
7647-14-5	Sodium chloride		No	No	No		
56-81-5	Glycerol		No	No	No		
7732-18-5	Water		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or \$	State Lists			
NA					; TSCA: No; CA		
7365-45-9	HEPES, free acio	1	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
7647-14-5	Sodium chloride		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
56-81-5	Glycerol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
7732-18-5	32-18-5 Water			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
Regulatory Info Statement:	ormation	This SDS was prepared in acco No.1272/2008.	rdance with 29 CFR <sup>·</sup>	1910.1200 and Regu	lation (EC)		
		Section 16. Oth	ner Information	า			
Revision Date: 09/25/2017							
Additional Information About No data available. This Product:							
<b>Company Policy or Disclaimer:</b> DISCLAIMER: This information is believed to be accurate and represents the best inform currently available to us. However, we make no warranty of merchantability or any other express or implied, with respect to such information, and we assume no liability resulting use. Users should make their own investigations to determine the suitability of the inform their particular purposes.					y or any other warranty, ability resulting from its		