

Revision: 03/19/2015

Supersedes Revision: 10/10/2011 according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking 1.1 **Product Code:** 700486 Product Name: Glycogen Fluorometric Detector 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 veterinary 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 Web site address: www.caymanchem.com Information: Cayman Chemical Company +1 (734)971-3335 1.4 Emergency telephone number: **Emergency Contact:** CHEMTREC Within USA and Canada: +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification 2.1 **Classification of the Substance or Mixture:** 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]: Acute Toxicity: Oral, Category 4 2.2 Label Elements: 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]: **GHS Signal Word:** Warning **GHS Hazard Phrases:** H302: Harmful if swallowed. **GHS Precaution Phrases:** P264: Wash {hands} thoroughly after handling. **GHS Response Phrases:** P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330: Rinse mouth. **GHS Storage and Disposal Phrases:** Please refer to Section 7 for Storage and Section 13 for Disposal information. 2.3 Harmful if swallowed. Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May be harmful by inhalation or skin absorption. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.



Multi-region format

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RTECS # REACH Registration No. EC Index No. 119171-73-2 10-Acetyl-3,7-dihydroxyphenoxazine (ADHP) 100.0 % NA Acute Tox. NA In Case of Pirst Aid No data available. Neasures: NA Acute Tox. In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by Get immediate medical attention. In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Record coloning. Get medical attention if symptoms occur. Wash clothing before reuse. In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything unconscious person. Get medical attention. Do NOT induce vomiting unless dir medical personnel. In Case of Ingestion: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Media: 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: No data. Explosive Limits: LEL: No data. Hazards: Flash Pt: Flash Pt: No data. Section 6. Accidental Release Measures <th></th>								
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Protective Equipment and unconscious person. Get medical attention. Do NOT induce vomiting unless di Emergency Procedures: medical personnel.								
6.2 Environmental Take steps to avoid release into the environment, if safe to do so. Precautions:								
6.3 Methods and Material For Contain spill and collect, as appropriate. Containment and CleaningTransfer to a chemical waste container for disposal in accordance with local re Up:	gulations.							



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			Section		<u></u>	JUIAge		
7.1	Precaut	ions To Be Taken	Avoid breathing du	ıst/fume/gas/ı	mist/vapours/s	pray.		
	in Hand							
7.2	Precaut	ions To Be Taken	Keep container tigl	htly closed.				
	in Storiı	ng:	Store in accordance	e with inform	ation listed on	the product insert.		
	Other P	recautions:	Light sensitive.					
		Sect	ion 8. Expos	sure Con	trols/Pers	sonal Protecti	ion	
3.1	Exposur	e Parameters:					_	
CAS	#	Partial Chemical Name		Britain E	EH40	France VL		Europe
1191	71-73-2	10-Acetyl-3,7-dihy (ADHP)	droxyphenoxazine	No data.		No data.		No data.
CAS	#	Partial Chemical Name		OSHA T	OSHA TWA	ACGIH TWA		Other Limits
1191	71-73-2	10-Acetyl-3,7-dihy (ADHP)	droxyphenoxazine	No data.		No data.		No data.
3.2	Exposur	e Controls:		•		1		•
8.2.1	Enginee	ering Controls	Use process enclo	sures, local e	exhaust ventila	tion, or other engine	ering controls	s to control airbor
	(Ventila	tion etc.):	levels below recom	nmended exp	osure limits.			
3.2.2	Persona	al protection equi	oment:					
	Eye Pro	tection:	Sofoty alagoog					
Protective Gloves: Compatible chemical-resistant gloves								
	Protecti		Safety glasses Compatible chemic	cal-resistant g	gloves			
			Compatible chemic	cal-resistant ç	gloves			
	Other P	ve Gloves:	Compatible chemic			rant.		
	Other P	ve Gloves: rotective Clothing tory Equipment	Compatible chemic			rant.		
	Other P Respira (Specify	ve Gloves: rotective Clothing tory Equipment / Type):	Compatible chemic	espirator, as		rant.		
	Other P Respira (Specify	ve Gloves: rotective Clothing tory Equipment / Type): ygienic/Maintenan	Compatible chemic :Lab coat NIOSH approved r	espirator, as ally.	conditions war	rrant. d be equipped with a	an eyewash fa	acility and a safe
	Other P Respira (Specify Work/Hy	ve Gloves: rotective Clothing tory Equipment / Type): ygienic/Maintenan	Compatible chemic :Lab coat NIOSH approved r	espirator, as ally.	conditions war		an eyewash fa	acility and a safe
	Other P Respira (Specify Work/Hy	ve Gloves: rotective Clothing tory Equipment / Type): ygienic/Maintenan	Compatible chemic :Lab coat NIOSH approved r Do not take interna Facilities storing of	espirator, as ally. r utilizing this	conditions war material shoul		an eyewash fa	acility and a safe
	Other P Respira (Specify Work/Hy	ve Gloves: rotective Clothing tory Equipment / Type): ygienic/Maintenan	Compatible chemic Lab coat NIOSH approved r Do not take interna Facilities storing of shower.	espirator, as ally. r utilizing this	conditions war material shoul		an eyewash fa	acility and a safe
	Other P Respira (Specify Work/Hy	ve Gloves: rotective Clothing tory Equipment / Type): ygienic/Maintenan tices:	Compatible chemic :Lab coat NIOSH approved r Do not take interna Facilities storing or shower. Wash thoroughly a No data available.	respirator, as ally. r utilizing this after handling.	conditions war material shoul			acility and a safe
0.1	Other P Respira (Specify Work/Hy ce Prace	ve Gloves: rotective Clothing tory Equipment / Type): ygienic/Maintenan tices: So	Compatible chemic :Lab coat NIOSH approved r Do not take interna Facilities storing or shower. Wash thoroughly a No data available.	respirator, as ally. r utilizing this after handling. ysical an	conditions war material shoul	d be equipped with a		acility and a safe
9.1	Other P Respira (Specify Work/Hy ce Pract	ve Gloves: rotective Clothing tory Equipment / Type): ygienic/Maintenan tices: So	Compatible chemic :Lab coat NIOSH approved r Do not take interna Facilities storing of shower. Wash thoroughly a No data available.	respirator, as ally. r utilizing this after handling. ysical an	conditions war material shoul	d be equipped with a		acility and a safe
).1	Other P Respira (Specify Work/Hy ce Pract	ve Gloves: rotective Clothing tory Equipment / Type): ygienic/Maintenan tices: <u>S</u> ion on Basic Phys	Compatible chemic Lab coat NIOSH approved r Do not take interna Facilities storing or shower. Wash thoroughly a No data available. ection 9. Physical and Chemical	respirator, as ally. r utilizing this after handling. ysical an I Properties [] Liquid	conditions war material shoul d Chemic	d be equipped with a		acility and a safe
).1	Other P Respira (Specify Work/Hy ce Pract	ve Gloves: rotective Clothing tory Equipment (Type): ygienic/Maintenan tices: <u>S</u> ion on Basic Phys I States: ance and Odor:	Compatible chemic Lab coat NIOSH approved r Do not take interna Facilities storing of shower. Wash thoroughly a No data available. Ection 9. Phy sical and Chemical [] Gas	respirator, as ally. r utilizing this after handling. ysical an I Properties [] Liquid	conditions war material shoul d Chemic	d be equipped with a		acility and a safe
9.1	Other P Respira (Specify Work/Hy ce Pract	ive Gloves: rotective Clothing tory Equipment / Type): ygienic/Maintenan tices: <u>So</u> ion on Basic Phys I States: ance and Odor: Point:	Compatible chemic Lab coat NIOSH approved r Do not take interna Facilities storing or shower. Wash thoroughly a No data available. ection 9. Phy sical and Chemical [] Gas A lyophilize	respirator, as ally. r utilizing this after handling. ysical an I Properties [] Liquid	conditions war material shoul d Chemic	d be equipped with a		acility and a safe
9.1	Other P Respira (Specify Work/Hy ce Pract	ve Gloves: rotective Clothing tory Equipment / Type): ygienic/Maintenan tices: Solution on Basic Phys il States: ance and Odor: Point: Point:	Compatible chemic :Lab coat NIOSH approved r Do not take interna Facilities storing of shower. Wash thoroughly a No data available. Ection 9. Phy sical and Chemical [] Gas A lyophilize No data. No data. No data.	respirator, as ally. r utilizing this after handling. ysical an I Properties [] Liquid	conditions war material shoul d Chemic	d be equipped with a		acility and a safe
9.1	Other P Respira (Specify Work/Hy ce Pract Physica Appeara Melting Boiling Flash Pe Evapora	ve Gloves: rotective Clothing tory Equipment (Type): ygienic/Maintenan tices: Solution on Basic Physic ion on Basic Physic l States: ance and Odor: Point: Point: t: ation Rate:	Compatible chemic Lab coat NIOSH approved r Do not take interna Facilities storing or shower. Wash thoroughly a No data available. Ection 9. Phy sical and Chemical [] Gas A lyophilize No data. No data. No data. No data.	respirator, as ally. r utilizing this after handling. ysical an Properties [] Liquid ed powder	conditions war material shoul [X] Solid	d be equipped with a		acility and a safe
9.1	Other P Respira (Specify Work/Hy ce Pract Pract Physica Appeara Melting Boiling Flash P Evapora Explosi	ve Gloves: rotective Clothing tory Equipment / Type): ygienic/Maintenan tices: Second ion on Basic Physe l States: ance and Odor: Point: Point: t: ation Rate: ve Limits:	Compatible chemic Lab coat NIOSH approved r Do not take interna Facilities storing of shower. Wash thoroughly a No data available. Ection 9. Phy sical and Chemical [] Gas A lyophilize No data. No data. No data. No data. LEL: No data.	respirator, as ally. r utilizing this after handling. ysical an Properties [] Liquid ed powder	conditions war material shoul [X] Solid	d be equipped with a		acility and a safe
9.1	Other P Respira (Specify Work/Hy ce Pract Pract Physica Appeara Melting Boiling Flash P Evapora Explosi	ve Gloves: rotective Clothing tory Equipment (Type): ygienic/Maintenan tices: Solution on Basic Physic ion on Basic Physic l States: ance and Odor: Point: Point: t: ation Rate:	Compatible chemic Lab coat NIOSH approved r Do not take interna Facilities storing of shower. Wash thoroughly a No data available. Ection 9. Phy sical and Chemical [] Gas A lyophilize No data. No data. No data. No data. LEL: No data.	respirator, as ally. r utilizing this after handling. ysical an Properties [] Liquid ed powder	conditions war material shoul [X] Solid	d be equipped with a		acility and a safe
9.1	Other P Respira (Specify Work/Hy ce Pract Physica Appeara Melting Boiling Flash Pt Evapora Explosit Vapor P Hg):	ve Gloves: rotective Clothing tory Equipment / Type): ygienic/Maintenan tices: Second ion on Basic Physe l States: ance and Odor: Point: Point: t: ation Rate: ve Limits:	Compatible chemic Lab coat NIOSH approved r Do not take interna Facilities storing of shower. Wash thoroughly a No data available. Ection 9. Phy sical and Chemical [] Gas A lyophilize No data. No data. No data. No data. No data. No data. No data. No data.	respirator, as ally. r utilizing this after handling. ysical an Properties [] Liquid ed powder	conditions war material shoul [X] Solid	d be equipped with a		acility and a safe



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	-	Gravity (Water =	-									
		y in Water:	No data.									
	Autoigni	tion Pt:	No data.									
9.2	Other Inf	ormation										
	Percent	Volatile:	No data.									
			Section 10.	Stability and	Reactiv	ity						
10.1	Reactivit	iy:	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.									
	Polymer	ization:	Will occur [] Will	not occur [X]								
10.4	Conditio	ns To Avoid:	No data available.									
10.5	Incompa	tibility - Materials	strong oxidizing agents	6								
	To Avoid	1:										
10.6	Hazardo	us	carbon dioxide									
	Decomp	osition Or	carbon monoxide									
	Byprodu	cts:	nitrogen oxides									
			Section 11. T	oxicological	Informa	tion						
11.1	Informat	ion on	The toxicological effect	ts of this product hav	ve not been	thoroughly stu	udied.					
	Toxicolo	gical Effects:										
CAS	#	Hazardous Com	ponents (Chemical Na	me)	NTP	IARC	ACGIH	OSHA				
1191	71-73-2	10-Acetyl-3,7-dihy	/droxyphenoxazine (AD	PHP)	n.a.	n.a.	n.a.	n.a.				
		l	Section 12.	Ecological In								
	Section 12. Ecological Information											
12.1	Toxicity		Avoid release into the	<u> </u>	IIUIIIallo							
12.1	Toxicity			environment.								
12.1	Toxicity: Persiste		Avoid release into the	environment.								
	-	nce and	Avoid release into the Runoff from fire contro	environment.								
12.2	Persiste Degrada	nce and bility:	Avoid release into the Runoff from fire contro No data available.	environment.								
	Persiste	nce and bility: mulative	Avoid release into the Runoff from fire contro	environment.								
12.2	Persiste Degrada Bioaccu Potentia	nce and bility: mulative I:	Avoid release into the Runoff from fire contro No data available.	environment.								
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12.2 12.3	Persiste Degrada Bioaccu Potentia Mobility	nce and bility: mulative I: in Soil: of PBT and vPvB	Avoid release into the Runoff from fire contro No data available. No data available. No data available.	environment.								
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12.2 12.3 12.4 12.5 12.6	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent: verse effects:	Avoid release into the Runoff from fire contro No data available. No data available. No data available. No data available. No data available. No data available.	environment. I or dilution water ma Disposal Con	ay cause pol	llution.						
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12.2 12.3 12.4 12.5 12.6	Persiste Degrada Bioaccu Potentia Mobility Results assessm Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB tent: verse effects:	Avoid release into the Runoff from fire contro No data available. No data available. No data available. No data available. No data available. No data available.	environment. I or dilution water ma Disposal Con	ay cause pol	llution.						
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Revision: 03/19/2015 Supersedes Revision: 10/10/2011

CHEMICAL				Supersec	des Revision: 10/10/2011	
		Section 14. Trans	sport Informat	tion		
14.1 LAND T	RANSPORT (US	DOT):				
DOT Proper Shipping Name: Not dangerous goods.						
UN/NA Nun						
14.1 LAND T	RANSPORT (Euro	opean ADR/RID):				
ADR/RID S	ADR/RID Shipping Name: Not dangerous goods.					
UN Number						
Hazard Cla						
	ANSPORT (ICAO/					
Additional Trar	Shipping Name:	Not dangerous goods. Transport in accordance with loo	cal state and federa	l regulations		
Information:	isport	Transport in accordance with loc	cal, state, and levera	il regulations.		
		Section 15. Regul	atory Informa	tion		
EPA SARA (Su	nerfund Amendr	nents and Reauthorization Act of	-			
CAS #	i	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
119171-73-2		ydroxyphenoxazine (ADHP)	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or \$	+ State Lists	<u> </u>	
119171-73-2		ydroxyphenoxazine (ADHP)	CAA HAP,ODC: N PROP.65: No	o; CWA NPDES: No	; TSCA: No; CA	
Regulatory Info	ormation	This SDS was prepared in accor No.1272/2008.	ordance with 29 CFR 1910.1200 and Regulation (EC)			
		Section 16. Oth	er Informatio	n		
Revision Date:		03/19/2015				
Additional Infor	mation About	No data available.				
Company Polic	y or Disclaimer:	DISCLAIMER: This information is currently available to us. However express or implied, with respect use. Users should make their ow their particular purposes.	er, we make no warra to such information,	anty of merchantabilit and we assume no lia	y or any other warranty, ability resulting from its	