

Revision: 06/05/2013 Supersedes Revision: 11/08/2006

Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108



1.1 Product Code:	10000						
	482280						
Product Name:	Estriol AChE Tracer						
1.2 Relevant identified uses of the substance	tified uses of the substance or mixture and uses advised against						
Relevant identified uses:	For research use	only, not for hum	nan or veterinary use.				
1.3 Details of the Supplier of the Safety Data	a Sheet						
Company Name:	Cayman Chemical Company						
Emergency Contact:	CHEMTREC Within USA and Canada: +1 (800)424-9300						
Alternate Emergency Contact:	CHEMTREC OI	utside USA and C	Canada: +1 (703)527-3887				
Information:	Cayman Chemic	al Company	+1 (734)971-3335				
	www.caymanche						
	-						
Se		lazards Id	entification				
GHS Classification	Placard	Key word	GHS hazard phrase				
Acute Toxicity: Oral, Category 4	Exclamation point	Warning	Harmful if swallowed				
Acute Toxicity: Skin, Category 5	none	Warning	May be harmful in contact with skin				
Skin Corrosion/Irritation, Category 3	none	Warning	Causes mild skin irritation				
Serious Eye Damage/Eye Irritation, Category 1	gory 1 Corrosive Danger Causes serious eye damage						
GHS Precaution Phrases: GHS Response Phrases:	 H316: Causes mild skin irritation. H318: Causes serious eye damage. P264: Wash {hands} thoroughly after handling. P280: Wear {protective gloves/protective clothing/eye protection/face protection}. P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330: Rinse mouth. P312: Call a {POISON CENTER/doctor/} if you feel unwell. P332+313: If skin irritation occurs, get medical advice/attention. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a {POISON CENTER/doctor/}. 						
Symptoms:	Causes mild skin irritation. Causes serious eye damage. Harmful if swallowed. Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation or skin absorption. May cause respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated						
Target Organs:	No data available	e.					
Medical Conditions Generally Aggravated By Exposure:	No data available	e.					



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Hazar	dous Components (Chemical Name)	CAS #	on/Informat	EC#	Risk Phrases	RTECS #		
	striol AChE Tracer	NA	99.99 %	NA	Risk Phrases	NA		
	odium azide	26628-22-8		247-852-1	R28-32-50/53	VY8050000		
			First Aid Me	asures				
4.1	Description of First Aid Measures:							
4.1.1 In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by tr								
		personnel. Get immediate medical attention.						
4.1.2	In Case of Skin Contact:	-	-		for at least 20 minutes. R oms occur. Wash clothin			
4.1.3	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.						
4.1.4	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 b medical personnel.						
4.2 Both	Important Symptoms and Effects, Acute and Delayed:	No data available						
4.3 atten	Indication of any immediate medical tion and special treatment needed:	cation of any immediate medical No data available.						
	Se	ction 5. Fi	re Fighting	Measures				
5.1	Suitable Extinguishing Media:	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.						
	Unsuitable Extinguishing Media:	A solid water stream may be inefficient.						
5.2	Flammable Properties and Hazards:	Emits toxic fumes under fire conditions.						
	Flash Pt:	No data.						
	Autoignition Pt:	No data available						
	Explosive Limits:	LEL: No data.		UEL: No data.				
	Hazardous Combustion Products:	No data available						
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.						
	Sectio	n 6. Accid	ental Relea	se Measu	res			
6.1	Protective Precautions, Protective		l breathing dust, and					
Equip	oment and Emergency Procedures:	As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirate and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).						
6.2	Environmental Precautions:	Take steps to avo	id release into the e	nvironment, if sa	fe to do so.			
6.3 Conta	Methods and Material For ainment and Cleaning Up:	-	collect, as appropri mical waste contain		accordance with local rea	gulations.		
	Se	ection 7 H	andling and	Storage				
7.1	Precautions To Be Taken in Handling:	Avoid breathing	dust/fume/gas/mist/ or repeated exposu	vapours/spray.				
		Keep container ti			J			
7.2	Precautions To Be Taken in Storing:	Store in accordan	ce with information	n listed on the pro	duct insert.			



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Hazardous Components (Chemical Name) I. Estriol AChE Tracer	CAS #	OSHA PEL	ACGIH TWA	Other Limits			
	NA	No data.	No data.	No data.			
2. Sodium azide	26628-22-8	No data.	CEIL: 0.29 mg/m3	No data.			
Hazardous Components (Chemical Name)	CAS #	Britain EH40	France VL	Europe			
I. Estriol AChE Tracer	NA	No data.	No data.	No data.			
2. Sodium azide	26628-22-8	TWA: 0.1 mg/m3 () STEL: 0.3 mg/m3 ()	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3	TWA: 0.1 mg/m3 STEL: 0.3 mg/m3			
Protective Equipment Summary - Hazard Label Information:	-		wash station in work area L t Hood	ab coat Safety			
8.2.1 Engineering Controls (Ventilation etc.):	-	Use process enclosures, local exhaust ventilation, or other engineering controls to control airbor levels below recommended exposure limits.					
8.2.2.1 Eye Protection:	Safety glasses						
8.2.2.2 Protective Gloves:	Compatible chem	ical-resistant gloves					
Other Protective Clothing:	Lab coat						
8.2.2.3 Respiratory Equipment (Specify Type):	NIOSH approved	respirator, as conditions w	arrant.				
Work/Hygienic/Maintenance Practices:	Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling.						
8.2.3 Environmental Exposure Controls:	No data available						
Sectior	n 9. Physica	I and Chemical	Properties				
9.1 Information on Basic Physical and Ch	nemical Properties						
Physical States:	[]Gas []L	Liquid [X] Solid					
Appearance and Odor:	A lyophilized pov	wder					
Melting Point:	No data.						
Boiling Point:	No data.						
- Flash Pt:	No data.						
Evaporation Rate:	No data.						
Vapor Pressure (vs. Air or mm Hg):	No data.						
Vapor Density (vs. Air = 1):	No data.						
Specific Gravity (Water = 1):	No data.						
Solubility in Water:	No data.						
Autoignition Pt:	No data.						
Explosive Properties:	No data available.						
Oxidizing Properties:	No data available						
9.2 Other Information							
Percent Volatile:	No data.						
S	ection 10. St	tability and Read	ctivitv				
10.1 Reactivity:	No data available	-	y				
10.2 Stability:	Unstable []	Stable [X]					



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10.3 Stability Note(s):	Stable if stored in accordance with information listed on the product insert.						
10.4 Conditions To Avoid:	No data available						
10.3 Polymerization:	Will occur [] Will not occur [X]						
10.5 Incompatibility - Materials To Avoid:	strong oxidizing a	agents					
10.6 Hazardous Decomposition Or	hydrogen chloride	e gas					
Byproducts:	phosphorus oxide	-					
	potassium oxides						
	sodium oxides						
Sec	tion 11. To	xicological I	nformation				
11.1 Information on Toxicological Effects:	The toxicological	effects of this com	pound have not beer	thoroughly studied.			
Chronic Toxicological Effects:	No data available						
Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA		
1. Estriol AChE Tracer	NA	n.a.	n.a.	n.a.	n.a.		
2. Sodium azide	26628-22-8	n.a.	n.a.	A4	n.a.		
Carcinogenicity:	NTP? No IA	RC Monographs? N	No OSHA Regu	ilated? No			
Se	ection 12. E	cological In	formation				
12.1 Toxicity:	Avoid release inte	o the environment.					
	Runoff from fire	control or dilution v	water may cause pol	lution.			
Sec	tion 13. Dis	sposal Cons	siderations				
13.1 Waste Disposal Method:		-	te, and federal regul	ations.			
Se	ection 14. T	ransport In	formation				
14.1 LAND TRANSPORT (US DOT)		•					
DOT Proper Shipping Name	Not dangerous go	oods.					
14.1 LAND TRANSPORT (European ADR/RI							
ADR/RID Shipping Name		ada					
	Not dangerous go	oods.					
14.3 AIR TRANSPORT (ICAO/IATA)							
ICAO/IATA Shipping Name	Not dangerous go	oods.					
Additional Transport Information:	Transport in acco	rdance with local, s	tate, and federal reg	ulations.			
Se	ction 15. R	egulatory Ir	formation				
European Community Hazard Symbol codes	Xn: Harmful						
European Community Risk and Safety Phrase	es						
R22 - Harmful if swallowed.							
R41 - Risk of serious damage to the eye	es.						
S22 - Do not breathe dust.S24/25 - Avoid contact with skin and eye	s						
S26 - In case of contact with eyes, rinse		enty of water and seek	medical advice.				
S36/37/39 - Wear suitable protective clothin	ng, gloves and eye/fac	ce protection.					
US EPA SARA Title III							
Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110		
I. Estriol AChE Tracer	NA	No	No	No	No		
2. Sodium azide	26628-22-8	Yes 500 LB	Yes 1000 LB	Yes	No		
Other US EPA or State Lists							
	CAC#	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65		
Hazardous Components (Chemical Name) 1. Estriol AChE Tracer	CAS #		No	No	No		



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Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65		
2. Sodium azide	26628-22-8	No	No	Inventory	No		
Regulatory Information Statement:	Z6628-22-8 NO NO Inventory NO This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended. Section 16. Other Information 06/05/2013 06/05/2013 06/05/2013				European		
Section 16. Other Information							
Revision Date:	06/05/2013						
Company Policy or Disclaimer							
DISCLAIMER: This information is believe merchantability or any other warranty, expr make their own investigations to determine	ess or implied, with res	spect to such informatio	n, and we assume no liab		2		

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required