

SAFETY DATA SHEET

Revision: 10/09/2018 Supersedes Revision: 01/26/2015

100	CHEMICAL		Supersedes Revision: 01/26/2015			
	according t	o Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83	0 and US OSHA HCS 2015			
	Section 1. Ide	entification of the Substance/Mixture and of th	ne Company/Undertaking			
1.1	Product Code:	16155				
	Product Name:	Estradiol 3-(.betaD-Glucuronide) (sodium sal	t)			
	Synonyms:		, betaD-glucopyranosiduronic acid, monosodiur.			
		salt; E23G; .betaEstradiol 3-(.betaD-Glucuronide); 17.betaEstradiol				
		3-(.betaD-Glucuronide); 17.betaOestradiol 3	B-(.betaD-Glucuronide);			
1.2	Relevant identified uses of t	he substance or mixture and uses advised aga	ainst:			
	Relevant identified uses:	For research use only, not for human or veterin				
1.3	Details of the Supplier of the	e 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 numb	per:				
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300			
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887			
		Section 2. Hazards Identification	ation			
2.1	Classification of the Substa					
2.1						
	Acute Toxicity: Inhalation, Category 4 Acute Toxicity: Oral, Category 4					
	Acute Toxicity: Skin, Cate					
2.2	Label Elements:	gory 4				
2.2						
	\mathbf{V}					
	GHS Signal Word:	Warning				
	GHS Hazard Phrases:					
	H302: Harmful if swallowed.					
	H312: Harmful in contact wi	th skin.				
	H332: Harmful if inhaled.					
	GHS Precaution Phrases:					
	P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.					
	P264: Wash {hands} thoroughly after handling.					
	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.					
	GHS Response Phrases:					
	P301+312: IF SWALLOWED: P312: Call a POISON CENTER or doctor/physician if you feel unwell.					
	P302+352: IF ON SKIN: Wash with plenty of soap and water.					
	P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.					
	P321: Specific treatment {se					
	P330: Rinse mouth.					
	P362+364: Take off contam	inated clothing and wash it before reuse.				
	GHS Storage and Disposa	I Phrases:				
		Storage and Section 13 for Disposal information.				

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SAFETY DATA SHEET Estradiol 3-(.beta.-D-Glucuronide) (sodium salt) Revision: 10/09/2018 Supersedes Revision: 01/26/2015 2.3 Adverse Human Health Harmful if inhaled, swallowed, or in contact with skin. Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Section 3. Composition/Information on Ingredients CAS #/ EC No./ **GHS Classification** Hazardous Components (Chemical Name)/ Concentration **RTECS # REACH Registration No.** EC Index No. 14982-12-8 Estradiol 3-(.beta.-D-glucuronide) (sodium salt) 100.0 % 633-965-7 Acute Tox.(I) 4: H332 NA NA Acute Tox.(D) 4: H312 Acute Tox.(O) 4: H302 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. Use water spray to cool fire-exposed containers. Media: Unsuitable Extinguishing A solid water stream may be inefficient. Media:

5.2 Flammable Properties and No 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	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	Methods and Material For	Contain spill and collect, as appropriate.
	Containment and Cleaning	Transfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	

Multi-region format



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		Section 7. Handling and Storage
	Propositions To Do Tokan A	
7.1		Avoid breathing dust/fume/gas/mist/vapours/spray.
	•	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taken	
	in Storing:	Store in accordance with information listed on the product insert.
	Section	on 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne
	(Ventilation etc.):	evels below recommended exposure limits.
8.2.2	Personal protection equipn	nent:
	Eye Protection:	Safety glasses
	Protective Gloves: 0	Compatible chemical-resistant gloves
	Other Protective Clothing:L	ab coat
	Respiratory Equipment	IIOSH approved respirator, as conditions warrant.
	(Specify Type):	
	Work/Hygienic/Maintenan	Do not take internally.
	ce Practices: F	acilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
	V	Vash thoroughly after handling.
	Ν	lo data available.
	Se	ction 9. Physical and Chemical Properties
9.1	Information on Basic Physic	cal 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 or r	nm No data.
	Hg):	
	Vapor Density (vs. Air = 1):	No data.
	Specific Gravity (Water = 1)	: No data.
	Solubility in Water:	No data.
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2); ~20 mg/ml in DMSO; ~10 mg/ml in DMF;
	Octanol/Water Partition	No data.
	Coefficient:	

Multi-region format



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Autoignition Pt: Decomposition Tempera Viscosity:	No data.				
	Nu uala.				
Viscosity:	ture: No data.				
	No data.				
Other Information					
Percent Volatile:	No data.				
Molecular Formula & Wei	ight: C24H31O8 • Na 470.5				
	Section 10. Stability	and Reactivi	tv		
Reactivity:			- ,		
-					
-		nformation listed on	the product i	nsert.	
			·		
-					
To Avoid:	<u>.</u>				
Hazardous	carbon dioxide				
Decomposition or	carbon monoxide				
Byproducts:	sodium oxides				
·	Section 11 Toxicolog	ical Informati	ion		
	The toxicological effects of this produ	uct have not been tr	norougnly stu	idied.	
Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
2-12-8 Estradiol 3-(.beta	aD-glucuronide) (sodium salt)	n.a.	n.a.	n.a.	n.a.
	Section 12. Ecologic	al Informatio	n		
Toxicity:	Avoid release into the environment.				
	Runoff from fire control or dilution wa	ater may cause poll	ution.		
Develotones and	No data available.				
Persistence and					
Degradability:					
	No data available.				
Degradability:					
Degradability: Bioaccumulative					
Degradability: Bioaccumulative Potential:	No data available. No data available.				
Degradability: Bioaccumulative Potential: Mobility in Soil:	No data available. No data available.				
Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB	No data available. No data available.				
Degradability: Bioaccumulative Potential: Mobility in Soil: Results of PBT and vPvB assessment:	No data available. No data available. No data available.	Consideratio	ns		
	To Avoid: Hazardous Decomposition or Byproducts: Information on Toxicological Effects: Hazardous Com 2-12-8 Estradiol 3-(.beta	Reactivity: No data available. Stability: Unstable [] Stable [X] Stability Note(s): Stable if stored in accordance with ir Polymerization: Will occur [] Will not occur [X] Conditions To Avoid: No data available. Incompatibility - Materials strong oxidizing agents To Avoid: No data available. Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: sodium oxides Section 11. Toxicolog Information on The toxicological effects of this products: Paardous Components (Chemical Name) Reaction 3-(.betaD-glucuronide) (sodium salt) Section 12. Ecologic Toxicity:	Reactivity: No data available. Stability: Unstable [] Stable [X] Stability Note(s): Stable if stored in accordance with information listed on Polymerization: Will occur [] Will not occur [X] Conditions To Avoid: No data available. Incompatibility - Materials strong oxidizing agents To Avoid: Hazardous Carbon dioxide Decomposition or carbon monoxide Byproducts: sodium oxides Section 11. Toxicological Informat Information on The toxicological effects of this product have not been the Toxicological Effects: NTP P-12-8 Estradiol 3-(.betaD-glucuronide) (sodium salt) n.a. Section 12. Ecological Information Toxicity: Avoid release into the environment.	Stability: Unstable [] Stable [X] Stability Note(s): Stable if stored in accordance with information listed on the product i Polymerization: Will occur [] Will not occur [X] Conditions To Avoid: No data available. Incompatibility - Materials strong oxidizing agents To Avoid: No data available. Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: sodium oxides Section 11. Toxicological Information Information on The toxicological effects of this product have not been thoroughly stu Toxicological Effects: Hazardous Components (Chemical Name) NTP IARC P-12-8 Estradiol 3-(.betaD-glucuronide) (sodium salt) n.a. n.a.	Reactivity: No data available. Stability: Unstable [] Stable [X] Stability Note(s): Stable if stored in accordance with information listed on the product insert. Polymerization: Will occur [] Will not occur [X] Conditions To Avoid: No data available. Incompatibility - Materials strong oxidizing agents To Avoid: Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: sodium oxides Section 11. Toxicological Information Information on The toxicological effects of this product have not been thoroughly studied. Toxicological Effects: Hazardous Components (Chemical Name) NTP IARC ACGIH eta: 42-8 Estradiol 3-(.betaD-glucuronide) (sodium salt) n.a. n.a. n.a. Section 12. Ecological Information Toxicity:



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Section 14. Transport Information LAND TRANSPORT (US DOT): 14.1 DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number: LAND TRANSPORT (European ADR/RID): 14.1 ADR/RID Shipping Name: Not dangerous goods. **UN Number:** Hazard Class: 14.3 **AIR TRANSPORT (ICAO/IATA):** ICAO/IATA Shipping Name: Not dangerous goods. Additional Transport Transport in accordance with local, state, and federal regulations. Information: Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 14982-12-8 Estradiol 3-(.beta.-D-glucuronide) (sodium salt) No No No Hazardous Components (Chemical Name) Other US EPA or State Lists CAS # Estradiol 3-(.beta.-D-glucuronide) (sodium salt) CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA 14982-12-8 PROP.65: No This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) **Regulatory Information** No.1272/2008. Statement: Section 16. Other Information **Revision Date:** 10/09/2018 Additional Information About No data available. This Product: Company Policy 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.