



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
20	Health Hazard 2   Fire Hazard 1	
	Reactivity 0	See Section 15.

Common Name/ Trade Name   b-Estradiol Diacetate     Manufacturer   SPECTRUM LABORATORY PRODUCT		Catalog Number(s). CAS#	E1176 3434-88-6
Manufacturer SPECTRUM LABORATORY PRODUC	<b>TO</b> IN 10	CAS#	2424 99 6
Manufacturer SPECTRUM LABORATORY PRODUC	<b>TO 1110</b>		3434-00-0
	IS INC.	RTECS	Not available.
14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: No products were found.
Commercial Name(s) Not available.	Not available.		Not available.
Synonym 3, 17B-Diacetoxy-1,3,5(10)-Extratriene; 17B-Estra	3, 17B-Diacetoxy-1,3,5(10)-Extratriene; 17B-Estradiol Diacetate		
Chemical Name b-Estradiol Diacetate	b-Estradiol Diacetate		EMERGENCY (24hr) 800-424-9300
Chemical Family Steroid	Steroid		16-8000
Chemical Formula C22-H28-O4	C22-H28-O4		
SupplierSPECTRUM LABORATORY PRODUCTS INC.14422 S. SAN PEDRO STREETGARDENA, CA 90248			

Section 2.Composition and Information on Ingredients							
				Exposure Limits			
Name		CAS #	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	% by Weight	
1) {b-}Estradiol Diacetate 3434-88-6						100	
Toxicological Data   b-Estradiol Diacetate     on Ingredients   LD50: Not available.     LC50: Not available.   LC50: Not available.							
Section 3. Hazards Identification							
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (sensitizer).						
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Classified POSSIBLE for human. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.						

## **b-Estradiol Diacetate**

## Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data				
Flammability of the Product	May be combustible at high temperature.			
Auto-Ignition Temperature	Not available.			
Flash Points	Not available.			
Flammable Limits	Not available.			
Products of Combustion	These products are carbon oxides (CO, CO2).			
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.			
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.			
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.			
Special Remarks on Fire Hazards	Not available.			
Special Remarks on Explosion Hazards	Not available.			
Section 6. Accidental	Release Measures			

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

#### Section 7. Handling and Storage

D		
Prece	utions	
1 I UUa	unons	

Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 24°C (75.2°F).

#### Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.			
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.			
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.			
Exposure Limits	Not available.			

#### Section 9. Physical and Chemical Properties

Physical state and appearance	Solid. (crystalline powder.)	Odor	Not available.
Molecular Weight	356.46 g/mole	Taste	Not available.
		Color	White to yellowish.
pH (1% soln/water)	Not available.		-
Boiling Point	Not available.		
Melting Point	Not available.		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Not available.		
Section 10. Stability	and Reactivity Data		
St-1-11:4	The product is stable		

Section 10. Stability and Reactivity Data			
Stability	The product is stable.		
Instability Temperature	Not available.		
Conditions of Instability	Excess heat, light, incompatible materials		
Incompatibility with various substances	Not available.		
Corrosivity	Not available.		
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Special Remarks on Reactivity	Protect from light and heat. No information incompatilbility with other materials found at this time.					
Special Remarks on Corrosivity	Not available.					
Polymerization	Will not occur.					
Section 11. Toxicolo	ogical Information					
Routes of Entry	Inhalation. Ingestion.					
Toxicity to Animals	LD50: Not available. LC50: Not available.					
Chronic Effects on Humans	TERATOGENIC EFFECTS: Classified POSSIBLE for human.					
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (sensitizer).					
Special Remarks on Toxicity to Animals	Not available.					
Special Remarks on Chronic Effects on Humans	May cause adverse reproductive effects (suppresive effects on fertility) and birth defects (teratogenic). May have androgenic and anabolic action.					
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation. There is a low risk of possible contact dermatitis in sensitized persons. Eyes: May cause eye irritation. Inhalation: May cause mild respiratory tract irritation. Ingestion: May affect cardiovascular system.					
Section 12. Ecological Information						
Ecotoxicity	Not available.					
BOD5 and COD	Not available.					
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.					
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.					
Special Remarks on the Products of Biodegradation	Not available.					
Section 13. Disposa	I Considerations					
Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.					
Section 14. Transpo	ort Information					
DOT Classification	Not a DOT controlled material (United States).					
Identification	Not applicable.					
Special Provisions for Transport	Not applicable.					

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## b-Estradiol Diacetate

## DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms							
Federal and State Regulations	No products wer	e found.					
California Proposition 65 Warnings							
Other Regulations	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.						
Other Classifications	WHMIS (Canada) Not controlled under WHMIS (Canada).						
	DSCL (EEC)	R36/38- Irritating to eyes and skin.S2- Keep out of the reach of children.R63- Possible risk of harm to the unborn child.S46- If swallowed, seek medical advid immediately and show this container				medical advice	
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection	2 1 0 n E	National Fire Protection Association (U.S.A.)	Health	2 0	Flammability Reactivity Specific hazard	
WHMIS (Canada) (Pictograms)							
DSCL (Europe) (Pictograms)	×N						
TDG (Canada) (Pictograms)							
ADR (Europe) (Pictograms)							
Protective Equipment		Gloves.					
		.ab coat.					
			Be sure to use an ied respirator or				
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### **b-Estradiol Diacetate**



Splash goggles.

#### Section 16. Other Information

MSDS Code	E3189		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen.	
		Printed 9/12/2006.	
CALL (310) 516-80	00		

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.