



# **Material Safety Data Sheet**

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

Section 1. Chemical Product and Company Identification			Page Number: 1
Common Name/ Trade Name	Adrenosterone	Catalog Number(s	A3545 ).
		CAS#	382-45-6
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	Not available.
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: No products were found.
<b>Commercial Name(s)</b>	Not available.	CI#	Not available.
Synonym	4-Androstene-3,11,17-trione; 11-Ketoandrostenedione; Reichsteins's Substance G	IN CASE	<u>OFEMERGENCY</u> EC (24hr) 800-424-9300
Chemical Name	Androst-4-ene-3,11,17-trione		
Chemical Family	Not available.	CALL (310)	) 516-8000
Chemical Formula	C19-H24-O3		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, 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> )	<b>CEIL</b> (mg/m <sup>3</sup> )	% by Weight
1) Adrenosterone		382-45-6				100
	Net any Parkla					
Toxicological Data on Ingredients	Not applicable.					
Section 3. Hazards lo	dentification					
Potential Acute Health	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.					

Effects	
<b>Potential Chronic Health</b>	CARCINOGENIC EFFECTS: Not available.
Effects	MUTAGENIC EFFECTS: Not available.
	TERATOGENIC EFFECTS: Not available.
	DEVELOPMENTAL TOXICITY: Not available.
	Repeated or prolonged exposure is not known to aggravate medical condition.

Adrenosterone	Page Number: 2	
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 if irritation occurs.	
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.	
Serious Skin Contact	Not available.	
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 Ex	plosion 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 heat.	
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 F	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.	

#### Adrenosterone

Page Number: 3

Section 7. Handling ar	nd Storage	
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.	
Section 8. Exposure C	ontrols/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	Safety glasses. 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. (Crystals solid. Powdered solid. Crystalline powder.)	Odor	Not available.
Molecular Weight	300.4 g/mole	Taste	Not available.
	-	Color	White. White to yellowish.
pH (1% soln/water)	Not applicable.	COIDI	
Boiling Point	Not available.		
Melting Point	219℃ (426.2뚜)		
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.		
<b>Dispersion Properties</b>	Not available.		
Solubility	Insoluble in cold water, hot water.		

### Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Excess heat, incompatible materials
Incompatibility with various substances	Not available.
Corrosivity	Not available.

Continued on Next Page

Adrenosterone	Page Number: 4
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.
Section 11. Toxicolog	ical Information
Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on other Toxic Effects on Humans	Acute Pontial Health Effects Skiin: May cause skin imitation. Eyes May cause expiratory tract imitation. Inhalation: May cause respiratory tract imitation. Ingestion: A massive dose is unlikely to cause adverse effects. If they do occur, adverse effects may include cause indigestion, nausea, vomiting, decreased or blurred vision, frequent urination, increased thirst, increased appetite, nervousness or restlessness, and trouble sleeping. It may also affect metabolism and cause disturbance of electrolyte balance which is manifest in the retention of sodium and water, with edema and hypertension, and in the increased excretion of potassium with the possibility of hypokalaemic alkalosis. Cardiac dyshythmias/faillure may be induced in sensitive individuals. Chronic Potential Health Effects Skin: Prolonged or repeated skin contact may cause sensitization, an allergic reaction. Eyes Prolonged contact with eyes may affect vision (cateracts) Inhalation/Ingestion: May cause anaphylaxis, an allergic reaction. Eyes Prolonged or repeated ingestion of corticosteroids may cause acute adrenal insufficiency, osteoporosis and spontaenous due to mobilization of calcium and phosphorus, muscle weakness/muscle wasting, swelling of the feet or lower legs, hip or shoulder pain, irregular heartbeat, and effect glucose tolerance (carbohydrate metabolism) causing hyperglycemia, protein metabolism, lipid metabolism, the liver, pancreas (pancreatitis), behavior/central nervous system (nervousness or restlessness, trouble seeping, mental disturbances such as psychosis, euphoria, depression). It may also effect the immune system (immunosuppressant) causing increased suseptibility to infections, metabolism (effects similar to that of acute ingestion in addition to weight gain or weight loss). Repeated large doses of corticosteroids may also produce Cushingoid symptomstypical of hyperactivity of the adrenal cortex, with moonface, sometimes hirsuitism (deepening of the voice), buffalo hump, flushing, increased bruising, ec
Section 12. Ecologica	Information
Ecotoxicity	Not available.
	Natavailahla

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.

#### Adrenosterone

Special Remarks on the Products of Biodegradation Page Number: 5

## Section 13. Disposal Considerations

Not available.

Waste Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information	
DOTClassification	Not a DOT controlled material (United States).
Identification	Not applicable.
Special Provisions for Transport	Not applicable.
DOT(Pictograms)	

Section 15. Other Re	egulatory Information and Pictograms	
Federal and State Regulations	No products were found.	
California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.	
Other Regulations	EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS no. 206-843-2). Canada: Not listed on Canadian Domestic Substance List (DSL) or Canadian Non- Domestic Substance List (NDSL). China: Not listed on National Inventory. Japan: Not listed on National Inventory (ENCS). Korea: Not listed on National Inventory (KECI). Philippines: Not listed on National Inventory (PICCS). Australia: Not listed on AICS.	
Other Classifications	WHMIS (Canada)   Not controlled under WHMIS (Canada).     DSCL (FFC)   This product is not classified according to the EU regulations.   Not applicable.	
HMIS (US.A.)	Health Hazard 1 National Fire Protection Association (U.S.A.) Farmability   Reactivity 0 Health Health Farmability   Personal Protection E Specific hazard	
WHMIS (Canada) (Pictograms)		
Continued on Next	t Page	

Adrenosterone			Page	Number: 6
DSCL (Europe) (Pictograms)				
TDG (Canada) (Pictograms)				
ADR (Europe) (Pictograms)				
Protective Equipment		Gloves		
		Lab coat.		
		Dust respirator. Be sure approved/certified respi	e to uœ an irator or equivalent.	
		Safety glasses.		
Section 16. Other Information				
MSDS Code A0242				
References     Not available.				
Other Special N Considerations	ot available.			
Validated by Sonia Owen on 11/12/2008.			Verified by Sonia Owen. Printed 11/13/2008.	

CALL (310) 516-8000

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.