

Andrographolide

Material Safety Data Sheet

Date Prepared: July 18, 2008

Date Revised: N/A

1. Identification of the Substance and the Company

Substance:	Andrographolide	
CAS#:	5508-58-7	
Synonym:	Andrographis Paniculata	
Chemical Name:	3-(2-(Decahydro-6-hydroxy-5-(hydroxymethyl)-5,8a-dimethyl-2-methylenenaphthyl)ethylidene)dihydro-4-hydroxyfuran-2(3H)-one	
Chemical Formula:	C20-H30-O5	
Supplier:	Aversion Technologies, Inc. 12220 Maycheck Lane Bowie, Maryland 20715 USA	CHEMTREC 24hr Emergency: 1-800-424-9300
Telephone:	+1-202-657-6300	International: 1-703-527-3887
Emergency No :	+1-202-365-9001	
Web Address:	www.aversiontech.com	

2. Composition:

Substance:	Andrographis Paniculata
Content %:	100%

3. Hazard Identification

Potential Acute Health Effects:	None expected
Potential Chronic Health Effects:	None expected

4. First Aid Measures

Eye Contact:	Direct contact in the eye with this product may cause brief, temporary eye irritation. Avoid direct contact with the eye in accordance with good health and safety practices.
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Skin Contact:	None expected
Inhalation:	N/A
Ingestion:	Ingestion of this product may cause temporary gastric distress.

5. Fire Fighting Measures	
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:	Carbon oxides (CO, CO2)
Fire Hazards in Presence of Various Substances:	Not available.
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 chemical powder. LARGE FIRE: Use water spray, fog or foam.

6. Accidental Release Measures	
Small Spill:	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill:	Use a shovel to put the material into a convenient waste disposal container.

7. Handling and Storage	
Precautions:	Keep away from heat. Keep away from sources of ignition.
Storage:	Keep container dry. Keep in a cool well-ventilated place. Keep container tightly closed.

8. Exposure Controls	
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, gloves.
Personal Protection in Case	Splash goggles, lab coat, dust respirator, gloves.
Exposure Limits:	Not available.

9. Physical and chemical properties	
Physical state and appearance:	Solid
Odor:	None
Taste:	Bitter
Molecular Weight:	350.45 g/mole
Color:	Light yellow or light yellow-brown powder
pH (1% solution/water):	Not available
Boiling Point:	Decomposes
Melting Point:	229-232°C (444-449°F)
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:	See solubility in water.
Solubility:	Poor solubility in water.

10. Stability and reactivity	
Stability:	The product is unstable in air
Instability Temperature:	Not available
Conditions of Instability:	Not available
Incompatibility with various substances:	Not available
Corrosivity:	Non-corrosive
Special Remarks on Reactivity:	Not available
Special Remarks on Corrosivity:	Not available
Polymerization:	No

11. Toxicology information	
Routes of Entry:	Ingestion, eye contact, inhalation.
Toxicity to Animals:	Acute oral toxicity (LD50): 40 g/kg (Mouse) Acute dermal toxicity (LD50): N/A (Mouse)

Chronic Effects on Humans:	Not available
Other Toxic Effects on Humans:	Not available
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:	Not available

12. Ecological Information	
Ecotoxicity:	Not available
BOD5 and COD:	Not available
Products of Biodegradation:	Not available
Toxicity of the Products of Biodegradation:	Not available

13. Disposal Considerations	
Disposal Methods:	Dispose of in accordance with local authority requirements.

14. Transport information	
DOT Classification:	Not Applicable
Identification:	Not Applicable
Special Provisions for Transport:	Not Applicable

15. Regulatory Information	
Federal and State Regulations:	TSCA 8(b) inventory: No
Other Regulations:	OSHA: No

16. Other Information	
INFORMATION SOURCES:	Material Safety Data Sheet, Misc. manufactures
REVISION DATE:	July 18, 2008
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