

# Andrographolide

## Material Safety Data Sheet

Date Prepared: July 18, 2008  
 Date Revised: November 15, 2010

1. Identification of the Substance and the Company	
Substance:	Andrographolide
CAS#:	5508-58-7
Chemical Name:	3-(2-(Decahydro-6-hydroxy-5-(hydroxymethyl)-5,8a-dimethyl-2-methylenenaphthyl)ethylidene)dihydro-4-hydroxyfuran-2(3H)-one
Chemical Formula:	C <sub>20</sub> H <sub>30</sub> O <sub>5</sub>
Synonym:	Andrographis Paniculata
Supplier:	Aversion Technologies, Inc 12220 Maycheck Lane Bowie, Maryland 20715 USA
Telephone:	+1-202-657-6300
Emergency:	<b>+1-202-365-9001</b>
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	
Inhalation:	N/A
Ingestion:	Ingestion of this product may cause temporary gastric distress.
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.
Skin Contact:	None expected
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, CO <sub>2</sub> )
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.
Inhalation:	Use mask or dust respirator if exposed to high concentrations of dust.
Eye:	Use goggles when handling or working with this product..

<b>Skin:</b>	Avoid contact with skin. Gloves, lab coat and face shield are recommended.
<b>Hygienic Work Practices:</b>	Wash at the end of each work shift and before eating, smoking, and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. No eating or drinking while working with this material.
<b>9. Physical and chemical properties</b>	
<b>Physical state and appearance:</b>	Solid powder
<b>Color:</b>	Light yellow or light yellow-brown
<b>Odor:</b>	None
<b>Taste:</b>	Bitter
<b>Molecular Weight:</b>	350.45 g/mole
<b>pH (1% solution/water):</b>	Not available
<b>Melting Point:</b>	229-232°C (444-449°F)
<b>Boiling Point:</b>	Decomposes
<b>Critical Temperature:</b>	Not available
<b>Specific Gravity:</b>	Not available
<b>Vapor Pressure:</b>	Not applicable
<b>Vapor Density:</b>	Not available
<b>Volatility:</b>	Not available
<b>Odor Threshold:</b>	Not available
<b>Water/Oil Dist. Coeff.:</b>	Not available
<b>Ionicity (in Water):</b>	Not available
<b>Dispersion Properties:</b>	See solubility in water.
<b>Solubility:</b>	Poor solubility in water.
<b>10. Stability and reactivity</b>	
<b>Stability:</b>	The product is unstable in air
<b>Instability Temperature:</b>	Not available
<b>Conditions of Instability:</b>	Not available
<b>Incompatibility with various substances:</b>	Not available
<b>Corrosivity:</b>	Non-corrosive
<b>Special Remarks on Reactivity:</b>	Not available
<b>Special Remarks on Corrosivity:</b>	Not available
<b>Polymerization:</b>	No
<b>11. Toxicology information</b>	
<b>Routes of Entry:</b>	Ingestion, eye contact, inhalation.
<b>Toxicity to Animals:</b>	Acute oral toxicity (LD50): 40 g/kg (Mouse) Acute dermal toxicity (LD50): N/A (Mouse)
<b>Chronic Effects on Humans:</b>	Not available
<b>Other Toxic Effects on Humans:</b>	Not available
<b>Special Remarks on Toxicity to Animals:</b>	Not available
<b>Special Remarks on Chronic Effects on Humans:</b>	Not available
<b>Special Remarks on other Toxic Effects on Humans:</b>	Not available
<b>12. Ecological Information</b>	
<b>Ecotoxicity:</b>	Not available
<b>BOD5 and COD:</b>	Not available
<b>Products of Biodegradation:</b>	Not available
<b>Toxicity of the Products of Biodegradation:</b>	Not available
<b>13. Disposal Considerations</b>	
<b>Disposal Methods:</b>	Dispose of in accordance with local authority requirements.
<b>14. Transport information</b>	
<b>DOT Classification:</b>	Not Applicable
<b>Identification:</b>	Not Applicable
<b>Special Provisions for Transport:</b>	Not Applicable
<b>15. Regulatory Information</b>	
<b>TSCA 8(b) inventory:</b>	No
<b>OSHA:</b>	No
<b>16. Other Information</b>	
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