

Safety Data Sheet

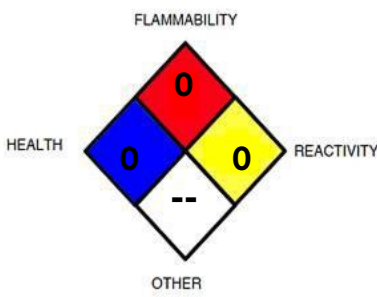
Section 1: Product & Company Identification

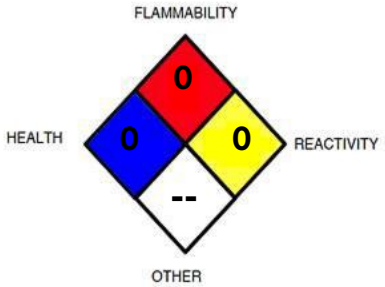
Product Name:	Withaferin A
Product #:	W-1042
Synonyms:	NSC 101088; NSC 273757
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
Withaferin A	5119-48-2	682-797-0	≥95

Section 3: Hazards Identification

Symbols	N/A
HMIS Classification	<p style="text-align: center;">FLAMMABILITY</p>  <p style="text-align: center;">HEALTH REACTIVITY</p> <p style="text-align: center;">OTHER</p>

NFPA Classification	 <p>The diagram is a diamond-shaped hazard diamond. The top vertex is a red triangle labeled '0' and 'FLAMMABILITY'. The left vertex is a blue triangle labeled '0' and 'HEALTH'. The right vertex is a yellow triangle labeled '0' and 'REACTIVITY'. The bottom vertex is a white triangle labeled '--' and 'OTHER'.</p>
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Section 4: First Aid Measures

General Overview:	No special measures required.
Inhalation:	Supply fresh air; consult doctor in case of complaints.
Skin:	Generally, the product does not irritate the skin.
Eyes:	Rinse opened eye for several minutes under running water.
Ingestion:	If symptoms persist, consult a doctor.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures

Flammability of the product:	Product is not flammable
Extinguishing Media:	Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
Hazardous thermal (de)composition products:	No data available
Special Fire Fighting Procedures:	No special measures required.
Flash Point:	No data available





Section 6: Accidental Release Measures

Personal Precautions:	Not required
Environmental Precautions:	Do not allow to enter sewers/surface or groundwater.
Methods for Clean-up:	Pick up mechanically.

SECTION 7: Handling & Storage

Storage:	Keep container tightly closed. Recommended storage temperature: -20°C
Handling:	No special measures required.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	 <p>Not required</p>
Skin and Body:	  <p>Protective gloves and lab coat</p>
Eyes:	 <p>Not required</p>
Ventilation/Engineering Measures:	N/A
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	N/A

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	Solid, characteristic odor
Formula	$C_{28}H_{36}O_6$
Molecular Wt.	470.6
Melting Pt.	No data available

Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	DMF (5 mg/mL), DMSO (5 mg/mL), DMSO:PBS [pH 7.2] [1:1] (0.5 mg/mL)
Flash Point:	No data available
Autoignition Temp:	Product is not flammable

SECTION 10: Stability and Reactivity

Stability:	Stable under recommended storage conditions.
Hazardous decomposition products:	Carbon oxides
Materials to Avoid:	Strong oxidizing agents
Conditions to avoid:	No data available

SECTION 11: Toxicological Information

RTECS#:	KE7288500
ACUTE Toxicity:	Oral TDLO: 10 mg/kg (mouse) Intraperitoneal LD50: 54 mg/kg (mouse)
CHRONIC Toxicity:	N/A
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA

SECTION 12: Ecological Information

Ecotoxicity:	Water Hazard Class 1 (self-assessment): Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course, or sewage system.
Mobility:	No data available

Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	Smaller quantities can be disposed of with household waste.
Contaminated Packaging:	Disposal must be made according to official regulations.

SECTION 14: Transportation Information

UN ID#:	N/A
ADR / RID (LAND):	Not regulated
DOT regulations:	Not regulated
IMDG/IMO (SEA):	Not regulated
IATA/DGR (AIR):	Not regulated
Special Provisions:	N/A

SECTION 15: Regulatory Information

Health Phrases:	Not hazardous
Risk Phrases:	N/A
Safety Phrases:	N/A
EU Regulations:	N/A
US Regulations:	TSCA: Not listed California Proposition 65: No products were found
U.S. Federal Regulations:	SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. SARA 313 toxic chemicals notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found.



	Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA: No products were found.
WHMIS (Canada):	N/A

SECTION 16: Other Information

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