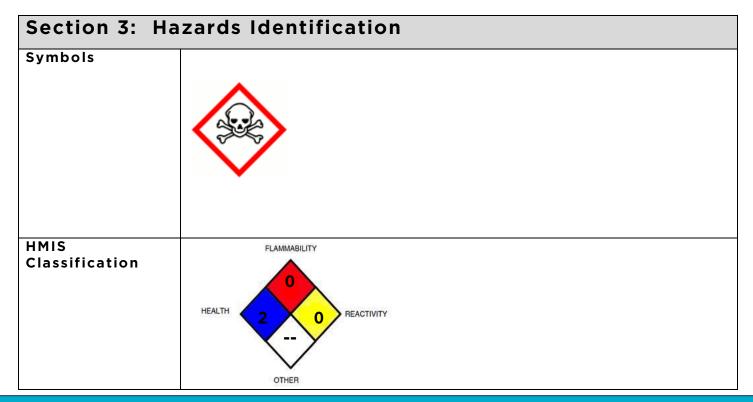


## Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	Digitonin	
Product #:	D-2425	
Synonyms:	<pre>(2.alpha.,3.beta.,5.alpha.,15.beta.,25R)-2,15- dihydroxyspirostan-3-ylObetaD-glucopyranosyl-( 1- &gt;3)-ObetaD-galactopyranosyl-(1-&gt;2)-O-[.betaD- xylopyranosyl-(1-&gt;4)betaD-galactopyra noside; Digitin; NSC 23471; NSC 237417</pre>	
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
Digitonin	11024-24-1	234-255-6	100



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NFPA	FLAMMABILITY
Classification	HEALTH HEALTH HEALTH O HEACTIVITY O THER

### **Section 4: First Aid Measures**

General	Consult a doctor and show this safety data sheet.
Overview:	
Inhalation:	Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
Skin:	Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
Eyes:	Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
Ingestion:	Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.
	See section 11 for more detailed information on health effects & symptoms.

# SECTION 5: Fire Fighting Measures

Flammability of	No data available
the product:	
Extinguishing	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Media:	
Hazardous	Carbon oxides
thermal	
(de)composition	
products:	
Special Fire	Wear suitable protective clothing to prevent contact with skin and eyes and
Fighting	self-contained breathing apparatus.
Procedures:	
Flash Point:	No data available

Section 6: A	ccidental Release Measures
Personal Precautions:	Avoid raising and breathing dust and provide adequate ventilation.
Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.

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Methods for	Contain spill and collect, as appropriate. Transfer to a chemical waste
Clean-up:	container for disposal in accordance with local regulations.

## **SECTION 7: Handling & Storage**

Storage:	Keep container tightly closed. Recommended storage temperature: -20°C
Handling:	Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid prolonged or
	repeated exposure.

SECTION 8: Expos	ure controls / Personal Protection
Respiratory Protection:	NIOSH approved respirator, as conditions warrant.
Skin and Body:	Compatible chemical-resistant gloves. Lab coat.
Eyes:	Safety glasses
Ventilation/Engineering Measures:	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
Hygiene:	Handle in accordance with good industrial hygiene and safety practice.
Other:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling.

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SECTION 9: Physical and Chemical Properties		
Appearance &	Crystalline solid	
Odor:		
Formula	C <sub>56</sub> H <sub>92</sub> O <sub>29</sub>	
Molecular Wt.	1229.3	
Melting Pt.	232 - 235°C	
Boiling Pt.	No data available	
Density:	No data available	
Vapor Pressure:	No data available	
<b>Evaporation Rate:</b>	No data available	
Vapor Density:	No data available	
Solubility:	DMSO, DMF	
Flash Point:	No data available	
Autoignition	No data available	
Temp:		

SECTION 10: Stability and Reactivity		
Stability:	Stable under recommended storage conditions.	
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide	
Materials to Avoid:	Strong oxidizing agents, strong acids	
Conditions to avoid:	No data available	

SECTION 11: Toxicological Information		
RTECS#:	IH2050050	
ACUTE Toxicity:	The toxicological effects of this product have not been thoroughly studied. Digitonin - Toxicity Data: Oral LD50 (rat): > 50 mg/kg; Oral LDLO (mouse): 90 mg/kg Intraperitoneal LD10 (mouse): 20 mg/kg Subcutaneous LDLO (mouse): 200 mg/kg	
CHRONIC Toxicity:	Digitonin - Investigated as a mutagen and natural product. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.	
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:	Avoid release into the environment.
	Runoff from fire control or dilution water may cause pollution.
Mobility:	No data available
Persistence and	No data available
degradability:	
Bioaccumulative	No data available
potential:	
Other adverse	No data available
effects:	
Corrosivity	No data available
Characteristic:	
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	Whatever cannot be saved for recovery or recycling should be managed
Unused product:	in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.
Contaminated	Dispose of container and unused contents in accordance with federal,
Packaging:	state and local requirements.

SECTION 14: Transportation Information		
UN ID#:	3462	
ADR / RID (LAND):	UN# 3462	
	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Digitonin)	
	Hazard Class: 6.1	
	Packaging Group: III	
DOT regulations:	UN# 3462	
	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Digitonin)	
	Hazard Class: 6.1	
	Packaging Group: III	
IMDG/IMO (SEA):	UN# 3462	



	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Digitonin) Hazard Class: 6.1 Packaging Group: III
IATA/DGR (AIR):	UN# 3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Digitonin) Hazard Class: 6.1 Packaging Group: III
Special Provisions:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.

SECTION 15:	SECTION 15: Regulatory Information	
Health Phrases:	H301: Toxic if swallowed. H311: Toxic in contact with skin. H331: Toxic if inhaled.	
Risk Phrases:	P261: Avoid breathing {dust/fume/gas/mist/vapors/spray}. P264: Wash {hands} thoroughly after handling. P280: Wear {protective gloves/protective clothing/eye protection/face protection}.	
Safety Phrases:	<ul> <li>P301+310: IF SWALLOWED: Immediately P311: Call a POISON CENTER or doctor/physician.</li> <li>P302+352: IF ON SKIN: Wash with plenty of soap and water.</li> <li>P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P321: Specific treatment {see on this label}.</li> <li>P330: Rinse mouth.</li> <li>P361+364: Take off immediately all contaminated clothing and wash it before reuse.</li> </ul>	
EU Regulations:	N/A	
US Regulations:	TSCA: Listed California Proposition 65: No products were found.	
U.S. Federal Regulations:	<ul> <li>SARA 302/304 emergency planning and notification: No products were found.</li> <li>SARA 311/312 MSDS distribution-chemical inventory-hazard identification: Acute Health Hazard, Chronic Health Hazard</li> <li>SARA 313 toxic chemicals notification and release reporting: No products were found.</li> <li>Clean Water Act (CWA) 307: No products were found.</li> <li>Clean Water Act (CWA) 311: No products were found.</li> <li>Clean Air Act (CAA) 112 accidental release prevention: No products were found.</li> <li>Clean Air Act (CAA) 112 regulated flammable substances: No products were found.</li> </ul>	



	Clean Air Act (CAA) 112 regulated toxic substances: No products were found.
	OSHA: Acute toxicity - oral, dermal, inhalation (Cat. 3)
WHMIS (Canada):	N/A

### **SECTION 16:** Other Information

**LIABILITY STATEMENT:** The above information is believed to be correct but does not purport to be allinclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.