

SAFETY DATA SHEET Digitonin

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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code:

14952

Product Name:

Digitonin

Synonyms:

(2.alpha.,3ß,5.alpha.,15ß,25R)-2,15-dihydroxyspirostan-3-yl

O-ß-D-glucopyranosyl-(1->3)-O-ß-D-galactopyranosyl-(1->2)-O-[ß-D-xylopyranosyl-(1

->4)-ß-D-galactopyranoside; Digitin; NSC 23471; NSC 237417;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name:

Cayman Chemical Company

1180 E. Ellsworth Rd.

Ann Arbor, MI 48108

Web site address:

Information:

www.caymanchem.com
Cayman Chemical Company

+1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact:

CHEMTREC Within USA and Canada:

+1 (800)424-9300

CHEMTREC Outside USA and Canada:

+1 (703)527-3887

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Acute Toxicity: Inhalation, Category 3

Acute Toxicity: Oral, Category 3
Acute Toxicity: Skin, Category 3

2.1.2 Classification according to Directive 1999/45/EC:

T: Toxic

Risk Phrases: R23/24/25

For full text of R- phrases: see SECTION 15.

2.2 Label Elements:

2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:



GHS Signal Word:

Danger

GHS Hazard Phrases:

H331: Toxic if inhaled.

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

GHS Precaution Phrases:

P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

P361+364: Take off immediately all contaminated clothing and wash it before reuse.

GHS Response Phrases:

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P311: Call a {POISON CENTER/doctor/...}.

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330: Rinse mouth.



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P302+352: IF ON SKIN: Wash with plenty of soap and water.

P312: Call a {POISON CENTER/doctor/...} if you feel unwell.

P321: Specific treatment (see ... on this label).

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.2.2 Labeling according to Directive 1999/45/EC:



Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. 2.3

Effects and Symptoms: May cause eye, skin, or respiratory system irritation.

Toxic if inhaled.

Toxic if swallowed.

Toxic in contact with skin.

To the best of our knowledge, the toxicological properties have not been thoroughly

investigated.

Section 3. Composition/Information on Ingredients

CAS#	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
11024-24-1	Digitonin	100.0 %	234-255-6 NA	T; R23/24/25 Acute Tox.(O) 3: H301 Acute Tox.(D) 3: H311 Acute Tox.(I) 3: H331

Section 4. First Aid Measures

4.1 **Description of First Aid**

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained

personnel. Get immediate medical attention.

In Case of Skin

Contact:

Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove

contaminated clothing. Get medical attention if symptoms occur. Wash clothing before

reuse.

In Case of Eye

Contact:

Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes

examined and tested by medical personnel.

In Case of Ingestion:

Wash out mouth with water provided person is conscious. Never give anything by mouth

to an unconscious person. Get medical attention. Do NOT induce vomiting unless

directed to do so by medical personnel.



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Section 5. Fire Fighting Measures

Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. 5.1

Media:

Use water spray to cool fire-exposed containers.

Unsuitable

A solid water stream may be inefficient.

Extinguishing Media:

Flammable Properties No data available. 5.2

and Hazards:

Flash Pt:

No data.

Explosive Limits:

LEL: No data.

UEL: No data.

Autoignition Pt:

Instructions:

No data.

5.3 **Fire Fighting** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation. 6.1

Protective Equipment As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy

and Emergency Procedures:

rubber gloves).

Environmental 6.2

Take steps to avoid release into the environment, if safe to do so.

Precautions:

6.3 **Methods and Material** Contain spill and collect, as appropriate.

For Containment and

Transfer to a chemical waste container for disposal in accordance with local regulations.

Cleaning Up:

Section 7. Handling and Storage

7.1 **Precautions To Be** Avoid breathing dust/fume/gas/mist/vapours/spray.

Taken in Handling: 7.2 **Precautions To Be**

Avoid prolonged or repeated exposure. Keep container tightly closed.

Taken in Storing:

Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

Exposure Parameters:

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
11024-24-1	Digitonin	No data.	No data.	No data.
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
11024-24-1	Digitonin	No data.	No data.	No data.

8.2 **Exposure Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to 8.2.1 Engineering Controls

(Ventilation etc.):

control airborne levels below recommended exposure limits.

8.2.2 Personal protection equipment:

Eye Protection:

Safety glasses

Protective Gloves:

Compatible chemical-resistant gloves

Other Protective

Lab coat

Clothing:

Respiratory Equipment NIOSH approved respirator, as conditions warrant.

(Specify Type):

Work/Hygienic/Mainten Do not take internally.

ance Practices:

Facilities storing or utilizing this material should be equipped with an eyewash and a

Multi-region format



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		safety shower. Wash thoroughly after handling.				
	Se	ection 9. Physical and Chemical Properties				
9.1	Information on Basic Physical and Chemical Properties					
	Physical States:	[] Gas				
	Appearance and Odor:	A crystalline solid				
	Melting Point:	No data.				
	Boiling Point:	No data.				
	Flash Pt:	No data.				
	Evaporation Rate:	No data.				
	Explosive Limits:	LEL: No data. UEL: No data.				
	Vapor Pressure (vs. Air mm Hg):	or No data.				
	Vapor Density (vs. Air =	= 1): No data.				
	Specific Gravity (Water	·				
	Solubility in Water:	No data.				
	Solubility Notes:	~30 mg/ml in DMF & DMSO;				
	Autoignition Pt:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
		Section 10. Stability and Reactivity				
10.1	Reactivity:	No data available.				
10.2	Stability:	Unstable [] Stable [X]				
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.				
	Polymerization:	Will occur [] Will not occur [X]				
10.4	Conditions To Avoid:	No data available.				
10.5	Incompatibility - Materials To Avoid:	No data available.				
10.6	Hazardous Decomposition Or Byproducts:	No data available.				



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Revision: 10/15/2013 Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied. 11.1 Information on **Toxicological Effects:** Digitonin - Toxicity Data: Oral LD50 (rat): > 50 mg/kg; Chronic Toxicological Digitonin - Investigated as a mutagen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented Effects: here. See actual entry in RTECS for complete information. Digitonin RTECS Number: IH2050050 OSHA Regulated? No NTP? No. IARC Monographs? No Carcinogenicity: Section 12. Ecological Information Avoid release into the environment. 12.1 Toxicity: Runoff from fire control or dilution water may cause pollution. Section 13. Disposal Considerations Dispose in accordance with local, state, and federal regulations. 13.1 Waste Disposal Method: Section 14. Transport Information LAND TRANSPORT (US DOT): 14.1

DOT Proper Shipping Name: Toxins, extracted from living sources, solid, n.o.s. (Digitonin)

DOT Hazard Class:

6.1

POISON

UN/NA Number:

3462

Packing Group:

Ш

LAND TRANSPORT (European ADR/RID): 14.1

ADR/RID Shipping Name:

Toxins, extracted from living sources, solid, n.o.s. (Digitonin)

UN Number:

3462

Packing Group:

Ш

Hazard Class:

6.1 - POISON

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:

Toxins, extracted from living sources, solid, n.o.s. (Digitonin)

UN Number:

3462

Packing Group:

Ш

Hazard Class:

6.1 - POISON

IATA Classification:

6.1

Additional Transport

Transport in accordance with local, state, and federal regulations.

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Information:

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. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
11024-24-1	Digitonin	No	No	No	
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists			
11024-24-1	Digitonin	CAA HAP,ODC: PROP.65: No	: No; CWA NPDES:	No; TSCA: Inventory; CA	



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European Community Hazard Symbol codes:



Т

European Community Risk and Safety Phrases:

R23/24/25

Toxic by inhalation, in contact with skin and if swallowed.

S22

Do not breathe dust.

S24/25

Avoid contact with skin and eyes.

S36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

S45

In case of accident or if you feel unwell, seek medical advice immediately (show the label

whenever possible.)

Regulatory Information

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and

Statement:

European Directive 67/548/EEC as amended.

Section 16. Other Information

Revision Date:

10/15/2013

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required