

## Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 26.08.2021 Revision: 26.08.2021 Version number 4.03 (replaces version 4.02)

SECTION 1: Identification of the substance/mixture undertaking	and of the company/
· 1.1 Product identifier	
<sup>.</sup> Trade name: <u>digitonin</u>	
<ul> <li>Article number: A1905</li> <li>CAS Number: 11024-24-1</li> <li>EC number: 234-255-6</li> <li>Application of the substance / the mixture Pharmaceutical analysis Laboratory chemicals</li> </ul>	
1.3 Details of the supplier of the safety data sheet	
• <b>Manufacturer/Supplier:</b> AppliChem GmbH Ottoweg 4 D-64291 Darmstadt	Tel.: +49 (0)6151 93570 Fax.: +49 (0)6151 935711 msds@applichem.com
<ul> <li>Further information obtainable from: Dept. Compliance</li> <li>1.4 Emergency telephone number: +49(0)6151 93570 (Inside normal between the second second</li></ul>	puisness hours)
SECTION 2: Hazards identification	
<ul> <li>SECTION 2: Hazards identification</li> <li>2.1 Classification of the substance or mixture</li> <li>Classification according to Regulation (EC) No 1272/2008</li> <li>Acute Tox. 3 H301 Toxic if swallowed.</li> <li>Acute Tox. 3 H311 Toxic in contact with skin.</li> <li>Acute Tox. 1 H330 Fatal if inhaled.</li> </ul>	
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#### · Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P330 Rinse mouth.

P320 Specific treatment is urgent (see on this label).

- P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### · 2.3 Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## **SECTION 3: Composition/information on ingredients**

- · 3.1 Substances
- · CAS No. Description
- 11024-24-1 digitonin
- · Identification number(s)
- EC number: 234-255-6

## **SECTION 4: First aid measures**

#### • 4.1 Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product. Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration. Involve doctor immediately.

#### · After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

- After skin contact:
- Call a doctor immediately.

Immediately wash with water and soap and rinse thoroughly.

Immediately remove any clothing soiled by the product.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. • After swallowing:

Do not induce vomiting; call for medical help immediately. Call a doctor immediately.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically and supportively.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released: Carbon monoxide and carbon dioxide Non-combustible.

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- 5.3 Advice for firefighters
- **Protective equipment:** Mouth respiratory protective device.
  - Wear self-contained respiratory protective device.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## **SECTION 6: Accidental release measures**

 6.1 Personal precautions, protective equipment and emergency procedures Avoid formation of dust. Avoid substance contact. Ensure adequate ventilation
 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
 6.3 Methods and material for containment and cleaning up: Pick up mechanically.

Avoid formation of dust. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Clean up affected area. • 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Any unavoidable deposit of dust must be regularly removed.

• Information about fire - and explosion protection: Keep respiratory protective device available.

The product is not flammable.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Store receptacle in a well ventilated area.
- Accesible for authorised persons only.
- · Recommended storage temperature: Room Temperature
- Storage class: 6.1 B
- 7.3 Specific end use(s) No further relevant information available.

## **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.

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	(Oradal of more O			
· Individual protection measures, such as perso	(Contd. of page 3)			
General protective and hygienic measures:				
Keep away from foodstuffs, beverages and feed.				
Immediately remove all soiled and contaminated cl				
Wash hands before breaks and at the end of work Store protective clothing separately.	•			
Vacuum clean contaminated clothing. Do not blow	or brush off contamination.			
Avoid contact with the eyes and skin.				
Respiratory protection:				
	piratory filter device. In case of intensive or longer			
exposure use self-contained respiratory protective Filter P3	device.			
· Hand protection				
Protective gloves				
The glove material has to be impermeable a	nd resistant to the product/ the substance/ the			
preparation.				
	of the penetration times, rates of diffusion and the			
degradation · <b>Material of gloves</b>				
	depend on the material, but also on further marks of			
quality and varies from manufacturer to manufactu				
Penetration time of glove material				
	it by the manufacturer of the protective gloves and			
has to be observed. • For the permanent contact gloves made of the	following materials are suitable:			
Nitrile rubber, NBR	ionowing materials are suitable.			
Recommended thickness of the material: $\geq$ 0.11 m	m			
Value for the permeation: Level $\geq$ 480 min				
<ul> <li>As protection from splashes gloves made of th Nitrile rubber, NBR</li> </ul>	e following materials are suitable:			
Recommended thickness of the material: $\geq 0.11$ m	m			
Value for the permeation: Level $\geq$ 480 min				
Eye/face protection Safety glasses				
Body protection:				
Use protective suit.				
Full head, face and neck protection Protective clothing should be selected specifically	for the working place, depending on concentration			
and quantity of the hazourdous substances handled.				
SECTION 9: Physical and chamical pro	nortios			
SECTION 9: Physical and chemical properties				
9.1 Information on basic physical and chemical	properties			
General Information	Optid			
· Physical state · Colour:	Solid White			
· Odour:	Odourless			
· Odour threshold:	Not determined.			
• Melting point/freezing point:	235-240 °C			
Boiling point or initial boiling point and boiling				
range	Undetermined.			
· Flammability	Product is not flammable.			
<ul> <li>Lower and upper explosion limit</li> <li>Lower:</li> </ul>	Not determined.			
· Upper:	Not determined.			
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Flash point:	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH	Not applicable.
Viscosity:	ereb ere
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
water at 20 °C:	10 g/l
Partition coefficient n-octanol/water (log va	
Vapour pressure:	Not applicable.
Density and/or relative density	
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
<u> </u>	
9.2 Other information	
Appearance:	
Form:	Solid
Important information on protection of he	alth
and environment, and on safety.	
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical haz	vard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
	Void
Pyrophoric liquids	Void
Pyrophoric solids	
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	Void
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals Desensitised explosives	Void Void

## **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: strong oxidants

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### • 10.6 Hazardous decomposition products: In the event of fire: See chapter 5

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#### **SECTION 11: Toxicological information** · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 · Acute toxicity Toxic if swallowed or in contact with skin. Fatal if inhaled. · LD/LC50 values relevant for classification: · Components Type Value Species >50 mg/kg (rat) Oral LD50 LD50 300 mg/kg (ATE) Dermal Inhalative LC50/4 h 0.005 mg/l (ATE) · Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Based on available data, the classification criteria are not met. · After inhalation: No irritant effect. · Respiratory or skin sensitisation Based on available data, the classification criteria are not met. · Germ cell mutagenicity Based on available data, the classification criteria are not met. · Carcinogenicity Based on available data, the classification criteria are not met. • **Reproductive toxicity** Based on available data, the classification criteria are not met. • STOT-single exposure Based on available data, the classification criteria are not met. • STOT-repeated exposure Based on available data, the classification criteria are not met. · Aspiration hazard Based on available data, the classification criteria are not met. 11.2 Information on other hazards · Endocrine disrupting properties Substance is not listed. **SECTION 12: Ecological information** · 12.1 Toxicity · Aquatic toxicity: No further relevant information available. • **12.2 Persistence and degradability** No further relevant information available. • 12.3 Bioaccumulative potential No further relevant information available. · 12.4 Mobility in soil No further relevant information available. 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties. 12.7 Other adverse effects · Additional ecological information: · General notes: Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small guantities. Danger to drinking water if even extremely small quantities leak into the ground. SECTION 13: Disposal considerations · 13.1 Waste treatment methods · Recommendation Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system. · Uncleaned packaging: Recommendation: Disposal must be made according to official regulations. (Contd. on page 7) GB

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(Contd. of page 6) Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14.1 UN number or ID number ADR, IMDG, IATA	UN3462
14.2 UN proper shipping name ADR, IMDG, IATA	TOXINS, EXTRACTED FROM LIVING SOURCI SOLID, N.O.S. (digitonin)
14.3 Transport hazard class(es)	
ADR	
Class Label	6.1 (T2) Toxic substances. 6.1
IMDG, IATA	
Class Label	6.1 Toxic substances. 6.1
14.4 Packing group ADR, IMDG, IATA	111
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Toxic substances. 60 F-A,S-A B
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 c
Transport category Tunnel restriction code	2 E
IMDG Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 3462 TOXINS, EXTRACTED FROM LIVII SOURCES, SOLID, N.O.S. (DIGITONIN), 6.1, III

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## **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- Seveso category H1 ACUTE TOXIC
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 20 t

· National regulations:

- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 Substance is not listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Dept. Compliance
- Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 1: Acute toxicity – Category 1 \* \* Data compared to the previous version altered. GR