

SAFETY DATA SHEET

Digitonin

Version 2 · issued 14 October 2026

1. IDENTIFICATION**Product Identifiers**

Product Name	Digitonin
Other Names	N/A
Product Number(s)	C096
CAS Number	11024-24-1

Recommended use of the chemical and restriction on use

Laboratory use. Commonly used to solubilise membrane-bound proteins.

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2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

GHS06 Skull and crossbones

Acute toxicity - oral 1 H300 Fatal if swallowed.

Acute toxicity - dermal 1 H310 Fatal in contact with skin.

Acute toxicity - inhalation 1 H330 Fatal if inhaled.

GHS08 Health hazard

Specific target organ toxicity (repeated exposure) 2 H373 May cause damage to organs through prolonged or repeated exposure.

Label Elements**Acute toxicity • Health hazard**

Signal Words	Danger
Hazard Statement(s)	Fatal if swallowed, in contact with skin or if inhaled. May cause damage to organs through prolonged or repeated exposure.
Precautionary Statement(s)	Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves / protective clothing. In case of inadequate ventilation, wear respiratory protection.

Primary route(s) of entry

Inhalation, skin absorption/contact and ingestion (all are significant routes of exposure).

Human Health

Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Ingestion	When using do not eat or drink.
Eyes	Not available.

Skin

Wash skin with plenty of water. Wear suitable protective clothing and gloves.
Take off immediately all contaminated clothing and wash it before reuse.

Environment

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
DIGITONIN	11024-24-1	-	-

4. FIRST AID MEASURES**Ingestion**

Do not induce vomiting; call for medical help immediately.

Inhalation

In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air or oxygen; call for doctor.

Skin Contact

Immediately wash with water and soap and rinse thoroughly.

Eye Contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

Other Information

Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.

5. FIREFIGHTING MEASURES**Suitable extinguishing equipment****Fire**

Fight larger fires with water spray or alcohol resistant foam.

Large Fire

Fight larger fires with water spray or alcohol resistant foam.

HAZCHEM

Not available.

Special protective equipment and precautions for fire fighters

Mouth respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Not required.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Methods and materials for containment and clean up

Dispose contaminated material as waste according to item 13.

7. HANDLING AND STORAGE**Precautions for safe handling**

Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

Conditions for safe storage

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 receptacle tightly sealed.
· Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Standards****Engineering controls**

No further data; see section 7.
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.

Personal protective equipment**Eye and face protection**

Not required.

Skin protection

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Body protection

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

9. PHYSICAL AND CHEMICAL PROPERTIES**General information****Appearance**

White powder.

Odour

Characteristic

pH

Not determined.

Vapour Pressure

Not determined.

Densityat 20 °C (68 °F): >1.1 g/cm³ (>9.1795 lbs/gal)**Boiling Point**

Undetermined.

Melting Point

237 °C (458.6 °F)

Solubility

Insoluble

Specific Gravity of Density

Not determined.

Flash Point

Not determined.

Flammable (Explosive) Limits

Not determined.

Ignition Temperature

Not determined.

FormulaC₅₆H₉₂O₂₉**10. STABILITY AND REACTIVITY****Reactivity**

No further relevant information available.

Chemical stability

No decomposition if used according to specifications.

Possibility of hazardous reactions

No dangerous reactions known.

Conditions to avoid

No further relevant information available.

Incompatible materials

No further relevant information available.

11. TOXICOLOGICAL INFORMATION**Acute effects**

on the skin: No irritant effect.
 · on the eye: No irritating effect.
 · Sensitization: No sensitizing effects known

Eye contact

No irritating effect.

Skin contact

Danger through skin absorption.

Ingestion

No further relevant information available.

Inhalation

No further relevant information available.

Chronic effects

Carcinogenic categories
 · IARC (International Agency for Research on Cancer) Substance is not listed.
 · NTP (National Toxicology Program) Substance is not listed.
 · OSHA-Ca (Occupational Safety Health Administration) Substance is not listed.

Toxicity and irritation

No further relevant information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Other adverse effects	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 quantities. Danger to drinking water if even extremely small quantities leak into the ground.

13. DISPOSAL CONSIDERATIONS**General information**

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION**ADG label required**

Marine pollutant • Class 6.1 Toxic

HAZCHEM

Not available.

UN Number

UN3462

Proper shipping name

DOT: Toxins, extracted from living sources, solid, n.o.s. (DIGITONIN)
ADR: 3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (DIGITONIN)
IMDG: TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (DIGITONIN), MARINE POLLUTANT
IATA: TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (DIGITONIN)

Transport hazard class

Class 6.1 Toxic substances · Label 6.1

Packing group

DOT, ADR, IMDG, IATA III

Environmental hazard

Marine pollutant: Yes (DOT)
Symbol (fish and tree)

Special precautions for users

Warning: Toxic substances.

Additional information

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
· Transport/Additional information:
· DOT
· Quantity limitations On passenger aircraft/rail: 100 kg
On cargo aircraft only: 200 kg
· Remarks: Special marking with the symbol (fish and tree).
· ADR
· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g
· 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
Special precautions for user Warning: Toxic substances
· Hazard identification number (Kemler code): 60
· EMS Number: F-A,S-A
Stowage Category B
UN "Model Regulation": UN 3462 TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (DIGITONIN), 6.1, III

15. REGULATORY INFORMATION

Poisons Schedule Number

Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

- Sara
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): ACTIVE
- Hazardous Air Pollutants Substance is not listed.
- Proposition 65
- Chemicals known to cause cancer: Substance is not listed.
- Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- Chemicals known to cause developmental toxicity: Substance is not listed.
- Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).

Other Information

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION**SDS preparation date**

14 October 2026

Comments

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
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety
 OSHA: Occupational Safety Health
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 Acute toxicity - oral 1: Acute toxicity – Category 1
 Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity (repeated exposure) – Category 2

References

Electron Microscopy Science SDS "DIGITONIN". 04/04/2025
<https://www.emsdiasum.com/docs/technical/msds/13260.pd>

This Safety Data Sheet (SDS) has been prepared in compliance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this SDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

... End of SDS ...