# SIGMA-ALDRICH

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# **Material Safety Data Sheet**

Version 4.2 Revision Date 06/12/2012 Print Date 10/22/2012

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

Digitonin

Product Number

: D141 : Sigma

Brand Supplier

: Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone

+1 800-325-5832

Fax

+1 800-325-5052 (314) 776-6555

Emergency Phone # (For both supplier and

manufacturer)

Preparation Information

Sigma-Aldrich Corporation

Product Safety - Americas Region

1-800-521-8956

#### 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption

### **Target Organs**

HeartHeart

### **GHS Classification**

Acute toxicity, Inhalation (Category 2) Acute toxicity, Dermal (Category 3) Acute toxicity, Oral (Category 3)

### GHS Label elements, including precautionary statements

Pictogram

Signal word

Danger

H301 + H311

Hazard statement(s)

Toxic if swallowed or in contact with skin

H330 Fatal if inhaled.

Precautionary statement(s)

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

Wear protective gloves/ protective clothing. P280

Wear respiratory protection. P284

Immediately call a POISON CENTER or doctor/ physician. P310

**HMIS Classification** 

Health hazard: Chronic Health Hazard: Flammability: 0 Physical hazards:

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**NFPA Rating** 

Health hazard: 2 0 Reactivity Hazard: 0

Potential Health Effects

Toxic if inhaled. May cause respiratory tract irritation.

Inhalation Toxic if absorbed through skin. May cause skin irritation. Skin

May cause eye irritation. Eves

Ingestion Toxic if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

: Digitin

Formula Molecular Weight : C<sub>56</sub>H<sub>92</sub>O<sub>29</sub>

1,229.31 g/mol

Component		Concentration
DigitonIn CAS-No. EC-No.	11024-24-1 234-255-6	

## 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

## In case of eve contact

Flush eyes with water as a precaution.

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIREFIGHTING MEASURES

### Suitable extinguishing media

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

## Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

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## Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

## Personal protective equipment

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Immersion protection Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: > 480 min

Material tested:Dermatril® (Aldrich Z677272, Size M)

Splash protection Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: > 30 min

Material tested:Dermatril® (Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method:

EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# **Appearance**

Form

powder

Colour

white

Safety data

no data available

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Mellina

Melting point/range: 230 - 240 ℃ (446 - 464 ℉)

point/freezing point

Boiling point

no data available

Flash point no data available

Ignition temperature Autoignition

temperature

no data available no data available

Lower explosion limit no data available

Upper explosion limit no data available

Vapour pressure no data available Density

no data available

Water solubility 10 a/l

Partition coefficient: no data available n-octanol/water

Relative vapour

no data available

density Odour

no data available

Odour Threshold

no data available

Evaporation rate

no data available

# 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

## Possibility of hazardous reactions

no data available

#### Conditions to avoid

Exposure to moisture.

#### Materials to avoid

Strong oxidizing agents, Strong acids

# Hazardous decomposition products

Hazardous decomposition products formed under fire conditions, - Carbon oxides

Other decomposition products - no data available

# 11. TOXICOLOGICAL INFORMATION

# Acute toxicity

Oral LD50

LD50 Oral - rat - > 50 mg/kg

Inhalation LC50

Dermal LD50

Other information on acute toxicity

LD50 Intravenous - rat - 4 mg/kg

# Skin corrosion/irritation

no data available

# Serious eye damage/eye irritation

no data available

## Respiratory or skin sensitization

no data available

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## Germ cell mutagenicity

## Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as IARC:

probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a ACGIH:

carcinogen or potential carcinogen by ACGIH.

No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a OSHA:

carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity

no data available

NTP:

#### Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

## **Aspiration hazard**

no data available

#### Potential health effects

Inhalation

Toxic if inhaled, May cause respiratory tract irritation.

Toxic if swallowed. Ingestion

Toxic if absorbed through skin. May cause skin irritation. Skin

Eves May cause eye irritation.

Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

no data available

# **Additional Information**

RTECS: IH2050050

## 12. ECOLOGICAL INFORMATION

## Toxicity

no data available

## Persistence and degradability

no data available

## Bioaccumulative potential

no data available

Mobility in soil no data available

# PRT and vPvB assessment

no data available

Other adverse effects

no data available

# 13. DISPOSAL CONSIDERATIONS

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#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

DOT (US)

UN number: 3462 Class: 6.1 Packing group: III

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Digitonia

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

Packing group: III UN number: 3462 Class: 6.1

EMS-No: F-A, S-A

Proper shipping name: TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Digitonin) Marine pollutant: No

#### IATA

UN number: 3462 Class: 6.1

Packing group: III

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Digitonin)

### 15. REGULATORY INFORMATION

#### **OSHA Hazards**

Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption

#### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302,

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

## Pennsylvania Right To Know Components

CAS-No. 11024-24-1 Revision Date

**New Jersey Right To Know Components** 

CAS-No.

Revision Date

Digitonin

11024-24-1

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# 16. OTHER INFORMATION

#### Further information

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