# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

## DIOSMINUM



Publication: 08/03/2022
Revision: 03/07/2024
Version: 01

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

| | |
|---|---|
| Product name: | Diosmin<br>Diosminum<br>Diosmine<br>Diosmine<br>Diosmin |
| N° CAS: | 520-27-4 |
| N° EC: | 208-289-7 |

### 1.2 Relevant identified uses of the substance/mixture and uses advised against

| | |
|---|---|
| Identified uses: | Active Pharmaceutical Ingredient or Excipient. |

### 1.3 Details of the supplier of the safety data sheet

| | |
|---|---|
| Company: | Magis-Pharma NV<br>Neerlandweg 24<br>2610 Wilrijk<br>Belgium |
| Telephone: | (+32) (0)3 457 11 76 |
| Email: | info@magis-pharma.be |
| Web page: | www.magis-pharma.be |

### 1.4 Emergency telephone number

| | | |
|---|---|---|
| Public utility foundation: | Belgisch Antigifcentrum | Centre Antipoisons Belge |
| Telephone: | (+32) (0)70 245 245 | (Service 24/7) |
| Web page: | www.antigifcentrum.be | www.centreantipoisons.be |

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance/mixture

**Classification according to (EC) n° 1272/2008**

The substance is not classified according to the CLP regulation.

### 2.2 Label elements

**Labelling according to (EC) n° 1272/2008**

| | |
|---|---|
| Hazard pictogram(s): | Not applicable. |
| Signal word(s): | Not applicable. |
| Hazard statements: | Not applicable. |
| Precautionary statements: | Not applicable. |
| Additional applicable label elements: | Not applicable. |

### 2.3 Other hazards

Not available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

| | |
|---|---|
| Product name: | Diosmin |
| IUPAC name: | 5-hydroxy-2-(3-hydroxy-4-methoxyphenyl)-7-[(2*S*,3*R*,4*S*,5*S*,6*R*)-3,4,5-trihydroxy-6-[[(2*R*,3*R*,4*R*,5*R*,6*S*)-3,4,5-trihydroxy-6-methyloxan-2-yl]oxymethyl]oxan-2-yl]oxychromen-4-one |
| Synonyms: | Barosmin<br>Venosmine |
| N° CAS: | 520-27-4 |
| N° EC: | 208-289-7 |
| Molecular Formula: | $C_{28}H_{32}O_{15}$ |
| Content: | 90.0 per cent to 102.0 per cent (anhydrous substance) |

### 3.2 Mixtures

Not applicable.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

| | |
|---|---|
| After inhalation: | Allow the victim to rest in a well ventilated area. Seek immediate medical attention. |
| After skin contact: | Non-toxic, suggestion to clean and rinse with soapy water. |
| After eye contact: | Clean and rinse with enough water at once. If irritant headache, consult a doctor. |
| After ingestion: | If large quantities are swallowed, seek medical advice immediately. |

### 4.2 Most important symptoms and effects, both acute and delayed

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

### 4.3 Indication of any immediate medical attention and special treatment needed

Not available.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

| | |
|---|---|
| Suitable extinguishing media: | $CO_2$, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |
| Unsuitable extinguishing media: | Not available. |

### 5.2 Special hazards arising from the substance/mixture

May be combustible at high temperature.

### 5.3 Advice for firefighters

| | |
|---|---|
| Surrounding fires: | The product can burn in fire. Most effective method: apply foam generated by water and carbon dioxide dry powder. Firefighters should know in advance how to remove the container from the site and spray with water to lower temperature. |

| | |
|---|---|
| Protection against fire: | Firefighters should wear the equipment helping respiration and approach to the fireplace with cautions. |
| Hazardous combustion products: | May be combustible at high temperature. |

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

Take appropriate precautions to minimise direct contact with skin or eyes and prevent inhalation of dust.

**For emergency responders**

Take appropriate precautions to minimise direct contact with skin or eyes and prevent inhalation of dust.

### 6.2 Environmental precautions

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

### 6.3 Methods and material for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Avoid raising dust.

Ventilate area and wash spill site after material pickup is complete.

### 6.4 Reference to other sections

Not available.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

| | |
|---|---|
| Precautions for safe handling: | Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Avoid absorption. Prevent formation of dust. |
| Personal protection: | Not available. |
| Technical protective measures: | Not available. |
| Handling: | Provide a dry device for grinding, mixing and drying procedures. Seal the packaging after use. |

### 7.2 Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| Storage: | Store in an airtight container. |
| Conditions for safe storage, including any incompatibilities: | Store in a dry and well-ventilated place at a temperature below 25°C. Make sure the transmission equipment is safely grounded. |
| Storage – away from: | Protect from light. |

### 7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Not available.

### 8.2 Exposure controls

**Appropriate engineering control**

Keep in a well-ventilated condition. Disinfect regularly to prevent dust accumulation.

**Individual protection measures**

| | |
|---|---|
| Eye/face protection: | Wear safety glasses (dust-proof glasses are preferred). |
| Skin protection: | Wear protective work clothes. |
| Hand protection: | Wear plastic or rubber gloves. |
| Respiratory protection: | Wear a gauze mask in the place with dense dust, with dust proof function. |
| Thermal hazards: | Not determined. |

**Environmental exposure control**

Not available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Appearance: | Greyish-yellow or light yellow, hygroscopic powder. |
| Odour: | Characteristic. |
| Odour threshold: | Not available. |
| pH: | Not available. |
| Melting/freezing point: | 274 °C |
| Initial boiling point: | Not available. |
| Boiling range: | Not available. |
| Flash point: | Not available. |
| Evaporation rate: | Not available. |
| Flammability (solid/gas): | Not available. |
| Upper/lower flammability or explosive limits: | Not available. |
| Vapour pressure: | Not available. |
| Vapour density: | Not available. |
| Relative density: | Not available. |
| Solubility: | Soluble in dimethyl sulfoxide, practically insoluble in ethanol (96%). It dissolves in dilute solutions of alkali hydroxides. |
| Solubility in water: | Practically insoluble in water. |
| Partition coefficient (n-octanol/water): | Not available. |
| Auto-ignition temperature: | Not available. |
| Decomposition temperature: | Not available. |
| Viscosity: | Not available. |
| Explosive properties: | Product does not present an explosion hazard. |
| Oxidising properties: | Not available. |

### 9.2 Other information

Not available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Not available.

### 10.2 Chemical stability

The product is stable.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

Not available.

### 10.5 Incompatible materials

Not available.

### 10.6 Hazardous decomposition products

No dangerous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

| | |
|---|---|
| Acute toxicity: | Not available. |
| Skin corrosion/irritation: | May cause skin irritation. |
| Serious eye damage/irritation: | May cause eye irritation. |
| Respiratory/skin sensitisation: | Not available. |
| Germ cell mutagenicity: | Not available. |
| Carcinogenicity: | Not available. |
| Reproductive toxicity: | Not available. |
| Summary of evaluation of the CMR properties: | Not available. |
| STOT-single exposure: | Not available. |
| STOT-repeated exposure: | Not available. |
| Aspiration Hazard: | Not available. |
| Other: | To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. |

### 11.2 Additional information on potential adverse human health effects and symptoms

| | |
|---|---|
| Eye contact: | May cause eye irritation |
| Skin contact: | May cause skin irritation.<br>May be harmful if absorbed through the skin. |

| | |
|---|---|
| Inhalation: | Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. |
| Ingestion: | May be harmful if swallowed. |
| Aspiration: | Not available. |

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

Not available.

### 12.5 Results of PBT and vPvB assessment

Not applicable.

### 12.6 Other adverse effects

Not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Substance disposal: 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. Observe all federal, state and local environmental regulations.

## SECTION 14: TRANSPORT INFORMATION

**Transport information according to ADR/RID/IMDG/ICAO/IATA**

### 14.1 UN Number

| | |
|---|---|
| ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : | Not classified. |

### 14.2 UN proper shipping name

| | |
|---|---|
| ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : | Not classified. |

### 14.3 Transport hazard class(es)

| | |
|---|---|
| ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : | Not classified. |

### 14.4 Packing group

| | |
|---|---|
| ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : | Not classified. |

### 14.5 Environmental hazards

| | |
|---|---|
| ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) : | Not classified. |

### 14.6 Special precautions for user

Not available.

### 14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

### 14.8 Additional transport information

Not a DOT controlled material (United States).

## SECTION 15: REGULATORY INFORMATION

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

| | |
|---|---|
| Hazard symbol: | Not applicable. |
| Risk phrases: | Not applicable. |
| Safety phrases: | Not applicable. |

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

## SECTION 16: OTHER INFORMATION

### 16.1 Changes since the previous version

Not applicable.

### 16.2 Abbreviations and acronyms used

| | |
|---|---|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society) |
| EC (number): | European Community (number) |
| IATA: | International Air Transport Association |
| ICAO: | International Civil Aviation Organization |
| IMDG: | International Maritime Code for Dangerous Goods |
| IUPAC: | International Union of Pure and Applied Chemistry |
| PBT: | Persistent, Bioaccumulative and Toxic substance |
| RID: | Regulations Concerning the International Transport of Dangerous Goods by Rail |
| STOT: | Specific Target Organ Toxicity |
| UN (number): | United Nations (number) |
| vPvB: | very Persistent and very Bioaccumalative |

### 16.3 Key literature references/sources for data

European Chemicals Agency.
https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/

### 16.4 Method of classification in case of mixture

Not applicable.

### 16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

### 16.6 Training advisement

Not available

### 16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information has been compiled from sources considered to be dependable and is accurate to the best of the FSA NV's knowledge. However, the information is provided without any representation or warranty, expressed or implied regarding its accuracy or correctness. FSA NV cannot assume responsibility for adverse events which may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product.

### 16.8 Department issuing MSDS


Quality Department
FAC SECUNDUM ARTEM NV
info@magis-pharma.be