

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Aug-2015

Print date: 28-Aug-2015

Version: 1.0

Page 1/9



## HERMETIC Pulver

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name/designation:

HERMETIC Pulver

Article No.:

0032309 (14 g)

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

Use of the substance/mixture:

Medical device for dental application. Observe instructions for use.

For professional use only,

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

Supplier (manufacturer/importer/only representative/downstream user/distributor):

lege artis Pharma GmbH + Co. KG

Breitwasenring 1

72135 Dettenhausen

GERMANY

Telephone: +49 (0) 71 57 / 56 45 - 0

Telefax: +49 (0) 71 57 / 56 45 - 50

E-mail: info@legeartis.de

Website: www.legeartis.de

E-mail (competent person): sicherheitsdatenblaetter@legeartis.de

#### 1.4. Emergency telephone number

24h: +49 (0) 551 / 192 40, +49 (0) 71 57 / 56 45 - 0 (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment (Aquatic Acute 1)	H400: Very toxic to aquatic life.	

#### Additional information:

Contains: Zinc oxide, Zinc acetate dihydrate

Precautionary statements:

Avoid release to the environment. Avoid breathing dust. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

#### Additional information:

As a medical device this product is not subject to Regulation (EC) no. 1272/2008 [CLP] and do not require labeling according this regulation.

#### 2.3. Other hazards

##### Adverse human health effects and symptoms:

May cause eye irritation.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Aug-2015

Print date: 28-Aug-2015

Version: 1.0

Page 2/9



## HERMETIC Pulver

### SECTION 3: Composition / information on ingredients

#### 3.2. Mixtures

##### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Concentration
CAS No.: 1314-13-2 EC No.: 215-222-5	<b>Zinc oxide</b> Aquatic Acute 1, Aquatic Chronic 1 <b>Warning</b> H410	50 - 70 Wt %
CAS No.: 5970-45-6 EC No.: 209-170-2	<b>Zinc acetate dihydrate</b> Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1 <b>Warning</b> H302-H410	5 - 10 Wt %

Full text of H- and EUH-phrases: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off contaminated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

##### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

##### In case of skin contact:

Wash with plenty of soap and water.

##### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### After ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell.

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

May cause eye irritation.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Product does not burn. Use extinguishing measures to suit surroundings.

#### 5.2. Special hazards arising from the substance or mixture

No special fire protection measures are necessary.

##### Hazardous combustion products:

In case of fire may be liberated: Gases/vapours, toxic

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Suppress gases/vapours/mists with water spray jet.

#### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 21-Aug-2015

**Print date:** 28-Aug-2015

**Version:** 1.0

Page 3/9



## HERMETIC Pulver

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Avoid dust formation. Avoid breathing dust. Avoid contact with eyes and skin. Remove persons to safety.

**Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

**For containment:**

Take up mechanically.

**For cleaning up:**

Water (with cleaning agent)

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

#### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Avoid dust formation. Avoid breathing dust. Avoid contact with eyes and skin. Take off contaminated clothing. Wear personal protection equipment (refer to section 8).

**Fire prevent measures:**

No special measures are necessary.

**Environmental precautions:**

Discharge into the environment must be avoided.

**Advices on general occupational hygiene**

When using do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Wash contaminated clothing before reuse. Apply skin care products after work.

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

**Technical measures and storage conditions:**

Keep container tightly closed in a cool, well-ventilated place.

Recommended storage temperature: 15 - 25°C

**Requirements for storage rooms and vessels:**

Floors should be impervious, resistant to liquids and easy to clean. Keep/Store only in original container.

**Hints on storage assembly:**

Keep away from food, drink and animal feedingstuffs.

**Storage class:** 13 - Non-combustible solids that cannot be assigned to any of the above storage classes

#### 7.3. Specific end use(s)

**Recommendation:**

Medical device for dental application.

Observe instructions for use.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Aug-2015

Print date: 28-Aug-2015

Version: 1.0

Page 4/9



## HERMETIC Pulver

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control Parameters

##### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MEL/OES (GB)	Zinc oxide CAS No.: 1314-13-2	① 5 mg/m <sup>3</sup> ② 10 mg/m <sup>3</sup> ⑤ Smoke

##### 8.1.2. Biological limit values

No data available

##### 8.1.3. DNEL-/PNEC-values

No data available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

##### 8.2.2. Personal protection equipment



##### Eye/face protection:

Eye glasses with side protection (DIN EN 166).

##### Skin protection:

Tested protective gloves must be worn (DIN EN 374).

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material:  $\geq 0,11$  mm

Breakthrough time (maximum wearing time):  $\geq 480$  min

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. The exact break through time has to be obtained from the protective glove manufacturer and must be observed. Check leak tightness/ impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

##### Respiratory protection:

Usually no personal respiratory protection necessary. Provide adequate ventilation.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Filtering device (full mask or mouthpiece) with filter: P3

##### Other protection measures:

Wear suitable protective clothing.

##### 8.2.3. Environmental exposure controls

No data available

#### 8.3. Additional information

No data available

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

##### Appearance

Physical state: solid, Powder

Colour: white

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 21-Aug-2015

**Print date:** 28-Aug-2015

**Version:** 1.0

Page 5/9



## HERMETIC Pulver

**Odour:** slightly like Acetic acid

### Safety relevant basis data

Parameter		at °C	Method	Remark
pH	6.8	20 °C		(5%)
Melting point/freezing point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not applicable</i>			
Upper/lower flammability or explosive limits	<i>not applicable</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	<i>not determined</i>			
Bulk density	0.9 g/cm <sup>3</sup>	20 °C		
Water solubility (g/L)	slightly soluble			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

### 9.2. Other information

No data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

See section 10,3.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

Humidity.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Gases/vapours, toxic

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
5970-45-6	Zinc acetate dihydrate	<b>LD<sub>50</sub> oral:</b> 794 mg/kg (Rat)

#### Acute oral toxicity:

Based on available data, the classification criteria are not met.

#### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

#### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 21-Aug-2015

**Print date:** 28-Aug-2015

**Version:** 1.0

Page 6/9



## HERMETIC Pulver

### Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

### Eye damage/irritation:

May cause eye irritation.

Based on available data, the classification criteria are not met.

### 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.

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
1314-13-2	Zinc oxide	<b>LC<sub>50</sub></b> : 1.1 mg/l 4 d (Oncorhynchus mykiss (Rainbow trout)) <b>IC<sub>50</sub></b> : 0.17 mg/l 3 d
5970-45-6	Zinc acetate dihydrate	<b>LC<sub>50</sub></b> : 0.55 mg/l 4 d

### Aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
5970-45-6	Zinc acetate dihydrate	No	

### Biodegradation:

The methods for determining the biological degradability are not applicable to inorganic substances.  
Some of the components are poorly biodegradable.

### 12.3. Bioaccumulative potential

#### Accumulation / Evaluation:

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
5970-45-6	Zinc acetate dihydrate	—

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

No data available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Aug-2015

Print date: 28-Aug-2015

Version: 1.0

Page 7/9



## HERMETIC Pulver

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Waste treatment options

##### Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

##### Appropriate disposal / Package:

Completely emptied packages can be recycled.









##### Other disposal recommendations:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Collect in closed and suitable containers for disposal.

#### 13.2. Additional information

Waste for disposal is to be classified and labelled.

### SECTION 14: Transport information

Land transport (ADR / RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO- TI / IATA-DGR)
<b>14.1. UN-No.</b>			
3077	3077	3077	3077
<b>14.2. UN proper shipping name</b>			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)
<b>14.3. Transport hazard class(es)</b>			
 9	 9	 8	 8
<b>14.4. Packing group</b>			
III	III	III	III
<b>14.5. Environmental hazards</b>			
		 MARINE POLLUTANT	

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Aug-2015

Print date: 28-Aug-2015

Version: 1.0

Page 8/9



## HERMETIC Pulver

Land transport (ADR / RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.6. Special precautions for user</b>			
<b>Special provisions:</b> 274, 335, 375, 601 <b>Limited quantity (LQ):</b> 5 kg <b>Hazard identification number (Kemler No.):</b> 90 <b>Classification code:</b> M7 <b>Tunnel restriction code:</b> E <b>Remark:</b> -	<b>Special provisions:</b> not determined <b>Limited quantity (LQ):</b> not determined <b>Classification code:</b> M7 <b>Remark:</b> -	<b>Special provisions:</b> not determined <b>Limited quantity (LQ):</b> not determined <b>EmS-No.:</b> F-A; S-B <b>Remark:</b> -	<b>Special provisions:</b> not determined <b>Limited quantity (LQ):</b> not determined <b>Remark:</b> -

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

#### Additional information:

Small amounts: Transport as "limited quantity" according to chapter 3.4 ADR/RID / Transport as "excepted quantity" according to chapter 3.5 ADR/RID,

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Other regulations (EU):

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Directive 93/42/EEC concerning medical devices.

#### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

No data available.

### 15.3. Additional information

No data available.

## SECTION 16: Other information

### 16.1. Indication of changes

No data available.

### 16.2. Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### 16.3. Key literature references and sources for data

No data available.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 21-Aug-2015

**Print date:** 28-Aug-2015

**Version:** 1.0



Page 9/9

## HERMETIC Pulver

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment ( <i>Aquatic Acute 1</i> )	H400: Very toxic to aquatic life.	

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### 16.6. Training advice

No data available.

### 16.7. Additional information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.