



according to 1907/2006/EC, Article 31  
Date of issue: 01.06.2015

page 1 of 4  
Printing date: 12.11.2015

**Gypsum bound dental investment**

**1. Identification of the Substance / Preparation and company:**

Identification of the substance or preparation:

Commercial product name: Thermal, Hinrivest G  
Gypsum bound dental investment  
Company / Manufacturer: ERNST HINRICHS Dental GmbH  
Borsigstr. 1  
D - 38644 Goslar  
0 53 21 / 5 06 24  
0 53 21 / 5 08 81  
[info@hinrichs-dental.de](mailto:info@hinrichs-dental.de) / [www.hinrichs-dental.de](http://www.hinrichs-dental.de)

**2. Hazards Identification:**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:  
STOT RE 1 H372: Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008: The product is classified and labelled according to the CLP regulation.  
Hazard pictograms:



GHS08

Signal word: Danger  
Hazard-determining components of labelling: Quartz (SiO<sub>2</sub>)  
Cristobalite powder

Hazard statements:  
H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

Precautionary statements:  
P260 Do not breathe dust/fumes/gas/mist/vapours/spray.

2.3 Other hazards:

Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable.

**3. Composition / Information on Ingredients:**

Chemical characterization: Mixtures (hazardous substances)

CAS: 14808-60-7 EINECS: 238-878-4	Quartz powder (SiO <sub>2</sub> ), 99%	STOT RE 1, H372	50-70%
CAS: 14464-46-1 EINECS: 238-455-4	Cristobalite		15-25%

**4. First aid measures:**

4.1 Description of first aid measures:

After inhalation: Supply fresh air and seek medical advice.  
After skin contact: Wash off immediately with water and soap, rinse thoroughly.  
After eye contact: Rinse out immediately and consult a doctor.  
After swallowing: Rinse out the mouth and drink plenty of water.

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

No further relevant information available.



according to 1907/2006/EC, Article 31  
Date of issue: 01.06.2015

page 2 of 4  
Printing date: 12.11.2015

**Gypsum bound dental investment**

**5. Fire Fighting measures:**

- 5.1 Extinguishing media:  
Suitable extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture: Formation of hazardous gases is possible if heated or in case of fire.
- 5.3 Advice for firefighters  
Protective equipment: No special measures required.

**6. Accidental release measures:**

- 6.1 Personal precautions, protective equipment and emergency procedures: Avoid formation of dust.  
Wear respiratory protection.
- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically. Dispose of or recycle in suitable containers.
- 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.

**7. Handling and Storage:**

- 7.1 Precautions for safe handling: Exhaust air must be treated by a separator / stripper or lead over filters before being released to the environment.  
Information about fire - and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities:  
Requirements to be met by storerooms and receptacles: No special measures required.
- 7.3 Specific end use(s): No further relevant information available.

**8. Exposure controls / Personal protection:**

- 8.1 Control parameters:  
8.2 Ingredients with limit values that require monitoring at the workplace:

14808-60-7 Quartz powder (SiO <sub>2</sub> ), 99 %	
8.3 MAK	0,15 A mg/m <sup>3</sup> 24; Y; DFG
14464-46-1 Cristobalite	
MAK	0,15 A mg/m <sup>3</sup> 24; DFG

Additional information: The lists valid during the making were used as basis.

Exposure controls:  
Personal protective equipment:  
General protective and hygienic measures: Keep away from food, drink and foodstuffs. Wash hands before breaks and at the end of work.

Respiratory protection: Suitable respiratory protective device recommended. Filter P1. Recommended filter device for short-term use P2 (FFP EN 149:2001) / P3 (FFP 3 EN 149:2001).

Protection of hands: Not necessary. For permanent use hand gloves of the following material are suitable: natural rubber.

Eye protection: Not necessarily needed.

Body protection: Light protective clothing.

**9. Physical and chemical properties:**

Form: powder  
Colour: white



according to 1907/2006/EC, Article 31

Date of issue: 01.06.2015

Printing date: 12.11.2015

**Gypsum bound dental investment**

Odour:	odourless
Odour threshold:	Not determined.
Further information:	No further information available.

**10. Stability and Reactivity:**

10.2 Chemical stability	
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions:	No hazardous reactions known.
10.4 Conditions to avoid:	No further relevant information available.
Incompatible materials:	No further relevant information available.
Hazardous decomposition products:	Ammonia.

**11. Toxicological Information:**

11.1 Information on toxicological effects:	
Primary irritant effect:	
on the skin:	No irritating effect.
on the eye:	No irritating effect.
Sensitization:	No data available.

**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.
Additional ecological information:	
General notes:	The product may not be released into the environment.
Water hazard class 1 (German Regulation) (Self-assessment):	Slightly hazardous for water.
12.5 Results of PBT and vPvB assessment:	
PBT: Not applicable.	
vPvB: Not applicable.	
Other adverse effects:	No further relevant information available.

**13. Disposal Considerations:**

13.1 Recommendation:	Do not dispose of with the household rubbish. Do not allow entrance into the sewage water system.
European waste catalogue 180106:	Chemicals consisting of or containing dangerous substances.
Uncleaned packaging:	Dispose unclean packages the same way as the product.

**14. Transport Information:**

14.1 UN-Number:	
ADR, ADN, IMDG, IATA:	Void.
14.2 UN proper shipping name:	
ADR, ADN, IMDG, IATA:	Void.
14.3 Transport hazard class(es):	
ADR, ADN, IMDG, IATA:	Void.
14.4 Packing group:	
ADR, IMDG, IATA:	Void.
14.5 Environmental hazards:	
Marine pollutant:	No.
14.6 Special precautions for user:	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.



according to 1907/2006/EC, Article 31  
Date of issue: 01.06.2015

page 4 of 4  
Printing date: 12.11.2015

**Gypsum bound dental investment**

**15. Regulatory Information:**

---

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

Classification according to Industrial safety regulations (BetrSichV): -

Water hazard class (VwVwS): WGK1: Slightly hazardous.

Other regulations, restrictions and prohibitions:

According to TRGS 906 the handling with alveolar dusts, which contain crystalline silica in form of quartz and cristobalite, counts as carcinogenic workings. If working below the in section 8 described workplace-related limit values it is assumed that no higher health risk is given.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**16. Further 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.

Relevant phrases:

H372: Causes damage to organs through prolonged or repeated exposure.