



according to 1907/2006/EC, Article 31
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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
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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 (SiO₂)
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 ₂), 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.



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5. Fire Fighting measures:

- 5.1 Extinguishing media:
Suitable extinguishing agents: CO₂, 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 ₂), 99 % | |
| 8.3 MAK | 0,15 A mg/m ³ 24; Y; DFG |
| 14464-46-1 Cristobalite | |
| MAK | 0,15 A mg/m ³ 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



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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: Void.
 ADR, ADN, IMDG, IATA:
 14.2 UN proper shipping name: Void.
 ADR, ADN, IMDG, IATA:
 14.3 Transport hazard class(es): Void.
 ADR, ADN, IMDG, IATA:
 14.4 Packing group: Void.
 ADR, IMDG, IATA:
 14.5 Environmental hazards: No.
 Marine pollutant:
 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.



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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.