



according to 1907/2006/EC, Article 31
 Date of issue: 01.06.2015
 Revision date: 12.08.2022 Version 1.2

Gypsum bound dental investment

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

- 1.1 Product identifier**
 Trade name: Hinrivest G
 Gypsum bound dental investment
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
 Relevant identified uses: Manufacture of dental prosthesis
 Uses advised against: No relevant information available.
- 1.3 Details of the supplier of the safety data sheet**
 Manufacturer/Supplier: ERNST HINRICHS Dental GmbH
 Street / mailbox: Borsigstr. 1
 Country code. / postal code / city: D - 38644 Goslar
 Phone: 0 53 21 / 5 06 24
 Fax: 0 53 21 / 5 08 81
 E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de
 Further information obtainable from: ERNST HINRICHS Dental GmbH
- 1.4 Emergency telephone number**
 ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 (Mon-Fri. 8 a.m. - 4 p.m.)

SECTION 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.



according to 1907/2006/EC, Article 31

Date of issue: 01.06.2015

Revision date: 12.08.2022

Version 1.2

Gypsum bound dental investment**SECTION 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%

SECTION 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.

SECTION 5: Firefighting 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.

SECTION 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.

SECTION 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.



according to 1907/2006/EC, Article 31
 Date of issue: 01.06.2015
 Revision date: 12.08.2022 Version 1.2

Gypsum bound dental investment

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:

14808-60-7 Quartz powder (SiO₂), 99 %	
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.

8.2 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.

SECTION 9: Physical and chemical properties

9.1 Form: powder
Colour: white
Odour: odourless
Odour threshold: Not determined.

9.2 Further information: No further information available.

SECTION 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.



according to 1907/2006/EC, Article 31
Date of issue: 01.06.2015
Revision date: 12.08.2022 Version 1.2

page 4 of 5
Printing date: 11.10.2022

Gypsum bound dental investment

SECTION 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.

SECTION 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.

SECTION 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.

SECTION 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.



according to 1907/2006/EC, Article 31
Date of issue: 01.06.2015
Revision date: 12.08.2022 Version 1.2

page 5 of 5
Printing date: 11.10.2022

Gypsum bound dental investment

- 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.

SECTION 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.

SECTION 16: Other 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.