



according to 1907/2006/EC, Article 31

Date of issue: 01.06.2015

Revision date: 12.08.2022

Version 1.2

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Printing date: 11.10.2022

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.



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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.



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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.

Exposure controls:**8.2 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.
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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.



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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.



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- 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.