



according to Regulation (EU) 2020/878
Date of issue: 29.08.2017
Revision date: 13.05.2025 Version/replaced Version 2.0/1.0


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

- 1.1. Product identifier
Product form: Mixture
Trade name: Hinrivest CoCr, Hinrivest SG, Hinrivest KB, Hinrivest Press
Hinrivest RP, Hinrivest uni 3D
Product name: Investments - phosphate bound
UFI: -
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: Manufacture of dental prosthesis
- 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 [CLP]:
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.
- 2.2. Label elements:
Labelling according to Regulation (EC) No. 1272/2008 [CLP]:
Hazard pictograms (CLP): 
Signal word (CLP): GHS08
Danger
Hazard-determining components of labelling: Quartz, Cristobalite
Hazard statements (CLP):
H372 Causes damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP):
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3. Other hazards
Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.1. Substances Not applicable
3.2. Mixtures



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Dangerous components:

(CAS No) 14808-60-7 (EC No) 238-878-4	Quartz (SiO ₂) STOT RE 1, H372	25 - 50 %
(CAS No) 14464-46-1 (EC No) 238-455-4	Cristobalite STOT RE 1, H372	25 - 50 %
(CAS No) 1309-48-4 (EC No) 215-171-9	Magnesium oxide Substance with an occupational exposure limit	5 - 10 %

For the wording of the listed hazard statements refer to section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures General information:	Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and seek medical advice.
After inhalation:	Allow breathing of fresh air. If breathing stops, give artificial respiration. Get medical advice/attention if you feel unwell.
After skin contact:	Take off contaminated clothing and wash it before reuse. 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.
After swallowing:	Rinse mouth. Drink plenty of water as a precaution. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effects, both acute and delayed:	Causes damage to organs through prolonged or repeated exposure.
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:	Making extinguishing agents environment-friendly. Fire-extinguishing powder. Carbon dioxide. Water spray. For a significant fire: Foam.
Unsuitable extinguishing media:	Do not use a heavy water stream.
5.2. Special hazards arising from the substance or mixture:	No further relevant information available.
5.3. Advice for firefighters: Firefighting instructions	Use water spray or fog for cooling exposed containers. Dispose of fire debris and contaminated firefighting water in accordance with official regulations. Collect contaminated firefighting water separately. It must not enter drains. Prevent fire-fighting water from entering environment.
Protection during firefighting:	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:	Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment as required. Evacuate unnecessary personnel.
6.2. Environmental precautions:	Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
6.3. Methods and material for containment and cleaning up:	Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal.
6.4. Reference to other sections:	See Section 7 for information on safe handling



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See Section 8 for information on personal protection equipment.
 See Section 13 for information on disposal.

SECTION 7: Handling and storage

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| 7.1. Precautions for safe handling: | Ensure good ventilation of the work station. Avoid dust formation. Do not inhale dust. Exhaust air should only be taken into the open air by suitable separators. |
| Hygiene measures: | Handle in accordance with good industrial hygiene and safety procedures. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. |
| 7.2. Conditions for safe storage, including any incompatibilities | |
| Storage conditions: | Store tightly closed in a dry and cool place. |
| 7.3. Specific end use(s): | Manufacture of dental prosthesis |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with critical values that require monitoring at the workplace:		
1309-48-4 Magnesium oxide		
Ireland	Local name	Magnesium oxide
Ireland	OEL-TWA (mg/m ³)	4 mg/m ³ respirable dust 5 mg/m ³ fume 10 mg/m ³ total inhalable dust
Ireland	OEL-STEL (mg/m ³)	10 mg/m ³ fume
Malta	Local name	Respirable crystalline silica dust
Malta	OEL-TWA (mg/m ³)	0.1 mg/m ³ (Respirable fraction)
14808-60-7 Quartz (SiO ₂) / 14464-46-1 Cristobalite		
Ireland	Local name	Silica, crystalline, respirable dust, (Cristobalite, Quartz, Tridymite, Tripoli)
Ireland	OEL-TWA (mg/m ³)	0.1 mg/m ³
Ireland	Notes (IE)	Schedule 3 BOELV
Ireland	Local name	Silica, amorphous
Ireland	OEL-TWA (mg/m ³)	2.4 mg/m ³ respirable dust 6 mg/m ³ total inhalable dust

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| 8.2. Exposure controls | |
| Appropriate engineering controls: | Use adequate ventilation to keep concentrations below applicable standard. |
| Personal protective equipment: | |
| Protection of hands: | Wear suitable gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. |
| Material of gloves: | Latex, Nitrile rubber. (> 0.4 mm) |
| Penetration time of glove material: | The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. |
| Eye protection: | Chemical goggles or safety glasses. |



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Respiratory protection:	In case of dust formation, use adequate ventilation. Wear suitable respiratory equipment in case of insufficient ventilation: Breathing apparatus with filter P1. Recommended filter for short-term use: P2 (FFP 2 EN 149:2001) / P3 (FFP 3 EN 149:2001).
Skin and body protection:	Wear suitable protective clothing.
Environmental exposure controls:	Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1.	Information on basic physical and chemical properties
	Physical state: Solid (powder)
	Colour: White
	Odour: Odourless
	Melting point/Freezing point: No data available
	Boiling point or initial boiling point and boiling range: No data available
	Flammability: No data available
	Lower and upper explosion limit: Not applicable
	Flash point: Not applicable
	Auto-ignition temperature: Not applicable
	Decomposition temperature: Not applicable
	pH: No data available
	Kinematic viscosity: Not applicable
	Solubility: No data available
	Partition coefficient n-octanol/water (log value): Not applicable
	Vapour pressure: No data available
	Density and/or relative density: No data available
	Relative vapour density: Not applicable
	Particle characteristics: No data available
9.2.	Other information
	Explosive properties: Product is not explosive.
	Oxidising properties: No.

SECTION 10: Stability and reactivity

10.1.	Reactivity:	No dangerous reactions known under normal conditions of use.
10.2.	Chemical stability:	Stable under use and storage conditions as recommended in section 7. No decomposition if stored and applied as directed.
10.3.	Possibility of hazardous reactions:	None under normal use.
10.4.	Conditions to avoid:	No information available.
10.5.	Incompatible materials:	No information available.
10.6.	Hazardous decomposition products:	No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
	Acute toxicity: Not classified
	Skin corrosion/irritation: Not classified
	Based on available data, the classification criteria are not met
	Serious eye damage/irritation: Not classified
	Based on available data, the classification criteria are not met
	Respiratory or skin sensitisation: Not classified



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Germ cell mutagenicity:	Based on available data, the classification criteria are not met Not classified
Carcinogenicity:	Based on available data, the classification criteria are not met Not classified
Reproductive toxicity:	Based on available data, the classification criteria are not met Not classified
Specific target organ toxicity (single exposure):	Based on available data, the classification criteria are not met Not classified
Specific target organ toxicity (repeated exposure):	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard:	Not classified Based on available data, the classification criteria are not met
11.2. Information on other hazards	
Endocrine disruption for human health:	The mixture has no endocrine disrupting properties.
Potential adverse human health effects and symptoms:	Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity	
Aquatic toxicity:	Not classified
12.2. Persistence and degradability:	No information available.
12.3. Bioaccumulative potential:	No information available.
12.4. Mobility in soil:	No information available.
12.5. Results of PBT and vPvB assessment:	
PBT:	Not applicable.
vPvB:	Not applicable.
12.6. Endocrine disrupting properties:	The mixture has no endocrine disrupting properties.
12.7. Other adverse effects:	No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Recommendation:	Dispose in a safe manner in accordance with local/national regulations. Do not empty into drains. Do not dispose of with domestic waste.

European waste catalogue	
18 00 00	Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care)
18 01 00	wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 06*	chemicals consisting of or containing dangerous substances

Waste code number:	The waste code number according to the Regulation of the European Waste Catalogue (EWC) is dependent on the waste producer and can therefore be different for a product. The waste code number must therefore be determined separately by each waste producer.
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SECTION 14: Transport information

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| 14.1. | UN number or ID number
ADR, IMDG, IATA: | Not regulated for transport |
| 14.2. | UN proper shipping name
ADR, IMDG, IATA: | Not applicable |
| 14.3. | Transport hazard class(es)
ADR, IMDG, IATA: | Not applicable |
| 14.4. | Packing group:
ADR, IMDG, IATA: | Not applicable |
| 14.5. | Environmental hazards:
Marine pollutant:
Other information: | No
No
No supplementary information available |
| 14.6. | Special precautions for user: | Not applicable. |
| 14.7. | Maritime transport in bulk according to
IMO instruments: | Not applicable. |

SECTION 15: Regulatory information

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|-------|---|--|
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture
EU-Regulations:
Contains no substance on the REACH candidate list.
Contains no substance on the REACH Annex XIV List.
National regulations:
No additional information available | |
| 15.2. | Chemical safety assessment: | A chemical safety assessment has not been carried out. |

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

Full text of H- and EUH-phrases:

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

Abbreviations and acronyms:

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP:	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL:	Derived Minimal Effect Level
DNEL:	Derived No-Effect Level
EC50:	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA:	International Air Transport Association
IMDG:	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50:	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50:	Lethal Dose to 50% of a test population (Median Lethal Dose)
LOAEL:	Lowest Observed Adverse Effect Level
NOAEC/L:	No Observed Adverse Effect Concentration/Level
NOEC/L:	No Observed Effect Concentration/Level
OECD:	Organisation for Economic Cooperation and Development
PBT:	Persistent, Bioaccumulative and Toxic substance
PNEC:	Predicted No-Effect Concentration

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REACH:	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS:	Safety Data Sheet
STP:	Sewage Treatment Plant
UFI:	Unique Formula Identifier
vPvB:	Very Persistent and Very Bioaccumulative
STOT RE 1:	Specific target organ toxicity - repeated exposure, category 1