

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

- 1.1 Product identifier ·
- Trade name: **Expansion plus** crown & bridge denture investment material
- Art.956-0000/ 969-0100/ 956-0160
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture: Investment compound for dental casting ·
- 1.3 Details of the supplier providing the safety data sheet Manufacturer/Supplier:
- YETI Dental Products GmbH
- Industriestrasse 3
- D-78234 Engen / GERMANY
- sdb@yeti-dental.com
- + 49 (0) 7733-9410-0 ·
- Information on the substance / preparation: Tel. 0 77 33 / 94 10 0 FAX 0 77 33 / 94 10 22
- Emergency information: Tel. 0 77 33 / 94 10 0 (Monday – Thursday 8am – 4.30pm, Friday 8am – 2pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

STOT RE 2 H373 damage to organs through prolonged or repeated exposure.

Route of Exposure: Inhalation/Inhalation. ·

2.2 Label elements Labeling according to Regulation (EC) No. 1272/2008:

The product is classified and labeled according to the CLP regulation.

Hazard pictograms:



GHS08

Signal word: Caution Hazard-determining components of labelling: quartz

Hazard warnings: H373 damage to organs through prolonged or repeated exposure.

Route of Exposure: Inhalation/ Inhalation.

Safety instructions

P260 Do not breathe dust.

P270 Do not eat, drink or smoke when using this product.

P285 In case of insufficient ventilation wear respiratory protection.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Information concerning particular hazards for humans and the environment: Contains quartz. Do not breathe dust. Risk of lung diseases (silicosis or cancer). wear dust mask. ·

2.3 Other hazards Results of PBT and vPvB assessment: ·

PBT: Not applicable.

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vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· · 3.2 Mixtures · Description: Mixture of substances listed below with harmless additions.

· Hazardous ingredients:

CAS: 14808-60-7 EINECS: 238-878-4	Quarz STOT RE 2, H372	50 - 90%
CAS: 14464-46-1 EINECS: 238-455-4	Cristobalit STOT RE 2, H373	1 - 30%
CAS: 1309-48-4 EINECS: 215-171-9 Indexnummer: 025-199-09-0	Magnesiumoxid Substance for which a Community exposure limit value applies in the The workplace	1 - 20%

· · Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: bring those affected to fresh air. Storage and transport in a stable lateral position.

Consult a doctor if symptoms occur or persist. ·

After inhalation: Remove the affected person to fresh air and keep calm. If breathing is irregular or stopped, administer artificial respiration. Consult doctor immediately. ·

After skin contact: Wash with soap and water.

After eye contact: Rinse opened eyelid for several minutes under running water. If symptoms persist, consult a doctor. ·

After swallowing: Rinse your mouth and drink plenty of water. Consult a doctor in case of complaints. ·

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 The product itself does not burn. ·

· Suitable extinguishing agents Adapt fire extinguishing measures to the environment. ·

· 5.2 Special hazards arising from the substance or mixture No further relevant information available. ·

· 5.3 Advice for firefighters · Protective equipment: Wear self-contained breathing apparatus. Wear full protective suit.

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid dust formation. wear respiratory protection. ·
- 6.2 Environmental Protection Measures Do not allow to enter drains / surface water / groundwater. Do not allow to get into the subsoil/soil. ·
- 6.3 Methods and material for containment and cleaning up Pick up mechanically. Avoid formation of dust. Dispose of contaminated material as waste according to Section 13. ·
- 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 information on disposal

SECTION 7: Handling and storage

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- 7.1 Precautions for safe handling Ensure good ventilation / extraction at the workplace. Avoid dust formation. Do not breathe dust. Keep container tightly closed. Wash hands before breaks and at the end of work. Do not eat, drink or smoke at work. Take off dirty, soaked clothes immediately. · Information about protection against explosions and fires: No special measures required. ·
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- 7.2 Conditions for safe storage, including any incompatibilities · Storage Requirements for storage rooms and containers: Keep container in a well-ventilated, cool, dry place. Protect from moisture. · Information about storage in one common storage facility: Not required. · Further information about storage conditions: Keep container tightly closed. · Storage class: No information available. · Classification according to the Ordinance on Industrial Safety and Health (BetrSichV): No data available. ·
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- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Parameters to monitor

14808-60-7 Quartz MAC (Germany) MAC (Austria) MAK (Switzerland) respirable fraction Long-term value: 0.05 A mg/m ³ see Annex III C Long-term value: 0.15 a mg/m ³ P C1a SSc;
14808-60-7 Quartz MAC (Germany) MAC (Austria) MAK (Switzerland) respirable fraction Long-term value: 0.05 A mg/m ³ see Annex III C Long-term value: 0.15 a mg/m ³ P C1a SSc;

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14464-46-1 Cristobalit	
MAK (Deutschland)	respirable fraction Long-term value: 0.05 A mg/m³ see Annex III C Long-term value: 0.15 a mg/m³ P C1a SSc;
MAK (Österreich)	
MAK (Schweiz)	
1309-48-4 Magnesiumoxid	
AGW (Deutschland)	Long-term value: 1.25* 10** mg/m³ 2(II);*respirable**inhalable; AGS, DFG Short-term value: 20 E 10 A 20 A* mg/m³ Long-term value: 10 E 5 A* mg/m³ *Smoke Long-term value: 3 a mg/m³ *SSc;*Magnesia
MAK (Österreich)	
MAK (Schweiz)	

- Additional information: The lists valid during the making were used as a basis.
- 8.2 Limitation and monitoring of exposure · Appropriate engineering controls No further data, see section 7. · Individual protective measures, for example personal protective equipment · General protection and hygiene measures: The usual precautionary measures when handling chemicals must be observed. Wash hands before breaks and at the end of work. Keep away from food, drink and animal feedingstuffs. · Respiratory protection Respiratory protection recommended. In the case of short-term or low exposure, respiratory filter device; use self-contained breathing apparatus in the event of intensive or prolonged exposure. · Handguard The glove material has to be impermeable and resistant to the product. Due to a lack of tests, no recommendation on the glove material for the product can be given. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Glove material: The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. Since the product is a mixture of several substances, the resistance of the glove materials cannot be calculated in advance and must therefore be checked before use. Penetration time of glove material: The exact breakthrough time can be found out from the protective glove manufacturer and must be observed. · Eye/face protection Dust goggles..

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties ·
- General Information: ·
- Color white ·
- Odor: Odorless ·
- Melting point/freezing point: Not determined. ·
- Boiling point or initial boiling point and boiling range Not determined. ·
- Flammability Not determined. ·
- Flash point: Not applicable. ·
- Ignition temperature The product is not self-igniting. ·
- Decomposition temperature: Not determined. ·
- pH value: Not applicable.

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· Viscosity: ·	Not applicable.
· Kinematic viscosity Dynamic: ·	Not applicable.
· Solubility · Water:	Insoluble.
· Vapor pressure: ·	Not applicable.
· Density and/or specific gravity Density: ·	Not determined.
· Particle properties	See section 3.

9.2 Other information ·	
Look: ·	powder
Shape: ·	Not
Important health, safety and environmental information	determined
Ignition temperature: ·	The product mt. 100.0% I
Explosive properties: ·	Is not
VOC g/l: Solid content:	explosive
·	

· Information on physical hazard classes ·	
Explosive substances/mixtures and articles containing explosive substances ·	omitted
Flammable gases ·	omitted
· Aerosols ·	omitted
· Oxidizing gases ·	omitted
· Gases under pressure ·	omitted
· Flammable liquids ·	omitted
· Flammable solids ·	omitted
· Self-reactive substances and mixtures ·	omitted
Pyrophoric liquids ·	omitted
· Pyrophoric solids ·	omitted
· Self-heating substances and mixtures ·	omitted
Substances and mixtures which, in contact with water, emit flammable gases	omitted
Oxidizing liquids ·	omitted
· Oxidizing solids ·	omitted
· Organic peroxides ·	omitted
· Substances and mixtures which are corrosive to metals ·	omitted
Desensitized substances/mixtures and articles containing explosives	omitted

SECTION 10: Stability and reactivity

10.1 Reactivity No data available. ·
10.2 Chemical stability No data available. ·
10.3 Possibility of hazardous reactions No data available. ·
10.4 Conditions to avoid Moisture. ·
10.5 Incompatible materials No further relevant information available. ·
10.6 Hazardous decomposition products Vapors are released when the set investment material is heated in the preheating furnace: Ammonia.

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SECTION 11: Toxicological information

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- 11.1 Information on the hazard classes in accordance with Regulation (EC) No. 1272/2008 ·
- Acute toxicity Based on the available data, the classification criteria are not met. · Skin corrosion/irritation No data available. · Serious eye damage/irritation Based on the available data, the classification criteria are not met. · Respiratory or skin sensitization No data available. · Germ cell mutagenicity Based on the available data, the classification criteria are not met. · Carcinogenicity Based on the available data, the classification criteria are not met. · Reproductive toxicity Based on the available data, the classification criteria are not met. · Specific target organ toxicity - single exposure Based on the available data, the classification criteria are not met. · Specific target organ toxicity - repeated exposure Can cause damage to organs through prolonged or repeated exposure. Route of Exposure: Inhalation/Inhalation. · Aspiration hazard Based on available data, the classification criteria are not met. Additional toxicological information: Contains quartz. Do not breathe dust. Risk of lung diseases (silicosis or cancer). wear dust mask. ·
- 11.2 Information on other hazards
-
- Endocrine disrupting properties
- None of the ingredients are included.

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. ·
- 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable. ·
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties. ·
- 12.7 Other adverse effects · Additional ecological information: · General information: Do not discharge product into the environment. Water hazard class 1 (self-assessment): slightly hazardous to water.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods ·
- Recommendation: Disposal must be made according to official regulations. Waste key number: The waste key number according to the Waste Catalog Ordinance (AVV) depends on the waste producer and can therefore be different for a product. The waste key number must therefore be determined separately by each waste producer. European Waste Catalogue: The assignment of the waste key numbers / waste designations is to be carried out according to EAVK specific to the industry and process.

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- Uncleaned packaging: · Recommendation: Dispose of uncleaned packaging in accordance with the local, official regulations.

SECTION 14: Transport

- | | |
|--|-------------------|
| · 14.1 UN number or ID number · | |
| · ADR, IMDG, IATA | Not applicable. · |
| · ADN | Not applicable. |
| · 14.2 UN proper shipping name · | |
| · ADR, IMDG, IATA | Not applicable. · |
| · 14.3 Transport hazard classes ADR, IMDG, IATA · | |
| · Class | Not applicable. · |
| · ADN/R class | Not applicable. · |
| · 14.4 Packing group · | |
| · ADR, IMDG, IATA | Not applicable. · |
| · 14.5 Environmental Hazards · | |
| · Marine pollutant | No. · |
| · 14.6 Special precautions for the User | Not applicable. · |
| · 14.7 Bulk Carriage by Sea according to IMO instruments | Not applicable. · |
| · UN "Model Regulation": | Not applicable. |
| · | |
| · | |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Labeling according to Regulation (EC) No. 1272/2008

- The substance is classified and labeled according to the CLP regulation. REGULATION (EC) No. 1907/2006

- ANNEX XVII Conditions of restriction: 65 Directive 2012/18/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Attachment II

- none of the ingredients are included
- Observe employment restrictions for young people. Respect employment regulations for nursing and to-be mothers. · Major Accidents Ordinance: The volume thresholds according to the Major Accidents Ordinance must be observed. · Water hazard class: Water hazard class 1 (self-assessment): slightly hazardous for water.
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- 15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16: Other information

The information is based on the current state of our knowledge, but it does not represent a guarantee of product properties and does not constitute a contractual legal relationship. The information must neither

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changed, nor transferred to other products. Reproduction in the unaltered state is permitted. ·
Relevant sentences H373 damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

Department issuing MSDS: Product safety department.

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

STOT RE 2: Specific target organ toxicity - repeated exposure - Category 2