SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Version number: 7.1.0
Issued: 2026-06-26
Replaces SDS: 2024-07-25

Investment material for dental crowns and bridges

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

1.1. Product identifier

Trade name

Investment material for dental crowns and bridges

Synonyms

BellaStarXL; BellavestSH; Bellavest T; Bellasun; VarseoVest C&B

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Manufacturing of dental prostheses in a dental laboratory

1.3. Details of the supplier of the safety data sheet

Manufacturer

BEGO - Bremer Goldschlägerei Wilhelm Herbst GmbH & Co. KG

Address
Wilhelm-Herbst-Str. 1
28359 Bremen
Germany

Telephone
+49/421/2028-0

Email
msds@bego.com

1.4. Emergency telephone number

+49 (0) 551 19240 (German and English 24/7) (GIZ-Nord)

Available outside office hours

Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Specific Target Organ Toxicity — Repeated exposure, hazard category 1

Hazard statements

H372

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H372 Causes damage to organs through prolonged or repeated exposure .

Precautionary statements

P260 Do not breathe dust/mist.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/container to in accordance with local regulations..

More information

This product contains more than 10% silicon dioxide in the fine fraction, which is classified as STOT RE1.

2.3. Other hazards

Measures to prevent aerosol and dust generation
A repeated, excessive dust exposure can cause pneumoconiosis.

Other

Depending on handling and use, the formation of airborne respirable crystalline silica is possible. Prolonged and/or intensive inhalation of respirable crystalline silica can cause silicosis (dust lung). The product should be handled with particular care to avoid dust formation. In case of irregular exposure, appropriate protective and monitoring measures should be in place.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Specific concentration limits ATE	Note
quartz	14808-60-7 238-878-4 - -	>50 - <70%	-	- - -		*
quartz (SiO2)	14808-60-7 238-878-4 - -	≥3 - <10%	STOT RE 1	H372 - -		*
cristobalite	14464-46-1 238-455-4 - -	>1 - <5%	STOT RE 1	H372 - -		*

Substance additional information
Substances with national occupational exposure limit(s) For the complete text of H- / EUH-statements mentioned in this section, see section 16. Substances with national occupational exposure limit(s) Substances with national occupational exposure limit(s)

SECTION 4: First aid measures

4.1. Description of first aid measures

Take off contaminated clothing and wash it before reuse.

Inhalation
Provide fresh air. Remove victim out of the danger area. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Skin contact
IF ON SKIN: Wash with plenty of water and soap. In case of skin irritation, consult a physician.

Eye contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

Ingestion
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed
No data available

4.3. Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Carbon dioxide , Dry extinguishing powder , Water spray jet , Foam

Unsuitable extinguishing media
Full water jet

5.2. Special hazards arising from the substance or mixture
No data available

5.3. Advice for firefighters
Special protective equipment for fire-fighters
In case of fire: Wear self-contained breathing apparatus. The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non-emergency personnel :
Avoid dust formation. Provide adequate ventilation. ,

For emergency responders
Personal protection equipment: see section 8

6.2. Environmental precautions
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up
Take up mechanically. Avoid dust formation. Disposal: see section 13

6.4. Reference to other sections
Safe handling: see section 7 , Personal protection equipment: see section 8 , Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

General hygiene

Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Take off contaminated clothing and wash it before reuse. Do not inhale vapors.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a well-ventilated place.
Keep/Store only in original container.

Hints on joint storage :
Do not store together with: Explosive hazardous substances

7.3. Specific end use(s)

No data available

Other

Keep only in original packaging.

Storage class in accordance with TRGS 510
Germany : LGK 6.1 D Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m³	Source	Remark	Year
silica, cristalline, respirable dust (Cristobalite, Quartz, Tridymite, Tripoli)	14464-46-1 -	- / 0.1	HSE EH40		-

8.2. Exposure controls

Personal Protective Equipment Symbols



Eye / face protection
Wear safety goggles.

Other skin protection
standard chemical workwear

Respiratory protection
If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
FFP2 , FFP3

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Solid – Dusty

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
No data available

Flash point
No data available

Auto-ignition temperature
No data available

Decomposition temperature
No data available

pH
No data available

Kinematic viscosity
No data available

Solubility
No data available

Partition coefficient n-octanol/water
No data available

Vapour pressure
No data available

Density and/or relative density
1.2 - 1.5 g/cm³

Relative vapour density
No data available

Particle characteristics
No data available

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions
No data available

10.4. Conditions to avoid
Protect from sunlight. Store in a well-ventilated place.

10.5. Incompatible materials
Hydrogen fluoride, hydrofluoric acid and inorganic fluorides

10.6. Hazardous decomposition products
Decomposition products in case of fire: see section 5.
During proper preheating of the set investment material in the preheating furnace, approximately 1 per-cent by weight is generated: Ammonia

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

STOT-single exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

The inhalation of dust/mist or aerosols causes irritation of the respiratory tract. A repeated, excessive dust exposure can cause pneumoconiosis.

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

The waste code has to be identified in agreement with the disposal company or the competent authority.
Delivery to an approved waste disposal company.

Packaging

Non-contaminated packages may be recycled.
Local disposal regulations : Observe in addition any national regulations!

Waste code	Waste description
18 01 06*	chemicals consisting of or containing hazardous substances

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

No data available

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

References to key literature and data sources

Key literature references and sources for data

European Union
according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 453/2010) , (EG) Nr. 1272/2008 (CLP)
2000/39/EC , 2006/15/EC , 2009/161/EU , 2017/164/EU
National regulations Occupational exposure limit values
German Chemicals Prohibition Ordinance (ChemVerbotsV)

Australia:
Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 7th Revised Edition (GHS Rev. 7);
Work Health and Safety (WHS) Regulations 2011 (Chapter 7 – Hazardous Chemicals):
Requirements for classification, labelling and Safety Data Sheets (SDS) for hazardous chemicals in the workplace
Safe Work Australia – Code of Practice: Preparation of Safety Data Sheets:
Industrial Chemicals Act 2019 – Australian Industrial Chemicals Introduction Scheme (AICIS):

USA:
Key / Reference Literature - OSHA Hazard Communication Standard, 29 CFR 1910.1200. - OSHA Respirable Crystalline Silica Standards: 29 CFR 1910.1053 (General Industry and Maritime) 29 CFR 1926.1153 (Construction). - Toxic Substances Control Act (TSCA) Inventory. - Emergency Planning and Community Right-to-Know Act (EPCRA/SARA Title III). - Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). - California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). - IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 100C: Arsenic, Metals, Fibres and Dusts. - National Toxicology Program (NTP), Report on Carcinogens (RoC), latest edition. - ACGIH® Threshold Limit Values (TLVs®) and Biological Exposure Indices (BEIs®). - NIOSH Pocket Guide to Chemical Hazards. - Registry of Toxic Effects of Chemical Substances (RTECS).

Evaluation methods for classification

according to Regulation (EC) No. 1907/2006 (REACH)
Physical hazards : On basis of test data. in accordance with Annex I, Part 2
Environmental hazards , health hazards : Calculation method. in accordance with Annex I, Parts 3, 4 and 5

Phrase meaning

STOT RE 1 - Specific Target Organ Toxicity — Repeated exposure, hazard category 1
H372 Causes damage to organs through prolonged or repeated exposure .