

Trade name: Mixing liquid without freeze protection (REF 51095)

Current version : 1.0.0, issued: 13.09.2022

Replaced version: -, issued: -

Region: USA

SECTION 1: Identification

1.1 Product identifier

Trade name

Mixing liquid without freeze protection (REF 51095)

Begosol HE (REF 51095, 51096, 51099)

Begosol K (REF 51120, 51121, 51122)

Begosol CC (REF 54907 - 54908)

1.2 Recommended use of the chemical and restrictions on use

Recommended use of the chemical and restrictions on use

Manufacturing of dental prosthesis in a dental laboratory

Restrictions on use

No data available.

1.3 Details of the supplier of the safety data sheet

Address

BEGO Bremer Goldschlägerei

Wilh. Herbst GmbH & Co. KG

Wilhelm-Herbst-Str. 1

28359 Bremen

Telephone no. +49/ 421/ 2028 – 0

Fax no. +49/ 421/ 2028 – 115

e-mail msds@bego.com

1.4 Emergency phone number

BEGO USA

1-800-342-2346

SECTION 2: Hazard(s) identification

2.1 Classification of the chemical

Classification information

This product is not subject to classification in accordance with paragraph (d) of 29 CFR § 1910.1200 "Hazard Communication".

2.2 Label elements

Not relevant

2.3 Labelling information

No data available

2.4 Hazards not otherwise classified (HNOC)

No data available

SECTION 3: Composition / information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Information regarding nanoparticle properties: see section 9

Hazardous ingredients

This product does not contain substances to be mentioned in accordance with paragraph (d) of 29 CFR § 1910.1200 "Hazard Communication".

Trade name: Mixing liquid without freeze protection (REF 51095)

Current version : 1.0.0, issued: 13.09.2022

Replaced version: -, issued: -

Region: USA

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Ensure supply of fresh air. Remove affected person from the immediate area.

After skin contact

Wash off with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Call a doctor 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: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings.

Unsuitable extinguishing media

Full water jet

5.2 Specific hazards arising from the chemical

No risks known.

5.3 Special protective equipment and precautions for fire-fighters

Use self-contained breathing apparatus. Product itself does not burn. Adapt extinguisher and fire-fighting measures to fire in the environment. Wear full protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation. Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Methods and materials for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When collected, handle material as described under the section heading "Disposal considerations".

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling

No special measures necessary if stored and handled as prescribed.

General protective and hygiene measures

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Keep away from foodstuffs and beverages.

Trade name: Mixing liquid without freeze protection (REF 51095)

Current version : 1.0.0, issued: 13.09.2022

Replaced version: -, issued: -

Region: USA

Advice on protection against fire and explosion

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Keep only in the original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatible products

None known

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

No parameters available for monitoring.

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. This should be achieved by the use of local exhaust ventilation and good general extraction.

Individual protection measures, such as personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn.

Eye / face protection

Tightly fitting safety glasses

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

Inappropriate material Leather

Other protection measures

Normal chemical work clothing.

SECTION 9: Physical and chemical properties

Form/Color	
liquid	
transparent; red	
Odor	
odorless	
Odor threshold	
No data available	
pH value	
Value	9.5 - 10.4
Source	supplier
Boiling point / boiling range	
Value	100 °C
Source	supplier
Melting point / melting range	
No data available	
Decomposition point / decomposition range	

Safety Data Sheet



Trade name: Mixing liquid without freeze protection (REF 51095)

Current version : 1.0.0, issued: 13.09.2022

Replaced version: -, issued: -

Region: USA

No data available

Flash point
not determined

Auto-ignition temperature	
Source	supplier
Remarks	Product is not selfigniting.

Oxidising properties
No data available

Explosive properties
Product does not present an explosion hazard.

Flammability	
Not applicable	
Source	supplier

Lower flammability or explosive limits	
No data available	

Upper flammability or explosive limits	
No data available	

Vapor pressure			
Value	23	hPa	
Reference temperature	20	°C	
Source	supplier		

Vapor density	
No data available	

Evaporation rate	
No data available	

Relative density	
No data available	

Density				
Value	1.28	-	1.30	g/cm ³
Reference temperature			20	°C
Source	supplier			

Solubility in water	
Source	supplier
Remarks	Completely miscible

Solubility(ies)	
No data available	

Partition coefficient: n-octanol/water	
No data available	

Viscosity			
Value	<	16	mPa*s
Reference temperature		20	°C
Type	dynamic		

Solvent content				
Value	55	-	65	%

Solids content				
Value	35	-	45	%

Other information

Other information	
No data available.	

Trade name: Mixing liquid without freeze protection (REF 51095)

Current version : 1.0.0, issued: 13.09.2022

Replaced version: -, issued: -

Region: USA

SECTION 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

10.3 Possibility of hazardous reactions

None, when used as directed.

10.4 Conditions to avoid

None, if handled according to intended use.

10.5 Incompatible materials

Electrolytes

10.6 Hazardous decomposition products

No hazardous decomposition products known. In case of fire: see section 5 .

SECTION 11: Toxicological information

Information on toxicological effects

Acute oral toxicity

No data available

Acute dermal toxicity

No data available

Acute inhalational toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Reproduction toxicity

No data available

Carcinogenicity

No data available

NTP Report on Carcinogens (RoC)

The product contains following substance(s) listed "known" (to be a human carcinogen) or "RAHC" (reasonably anticipated to be a human carcinogen)

No	Substance name	CAS no.	No
1	silicon dioxide, chemically prepared	7631-86-9	known

OSHA Standards listing cancer as a health effect (Table VII.6.2)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as carcinogenic.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

The product contains following substance(s) classified by the IARC Monographs

No	Substance name	CAS no.	Group
1	silicon dioxide, chemically prepared	7631-86-9	3

STOT - single exposure

Trade name: Mixing liquid without freeze protection (REF 51095)

Current version : 1.0.0, issued: 13.09.2022

Replaced version: -, issued: -

Region: USA

No data available
STOT - repeated exposure
No data available
Aspiration hazard
No data available
Other information
Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)
No data available
Toxicity to fish (chronic)
No data available
Toxicity to Daphnia (acute)
No data available
Toxicity to Daphnia (chronic)
No data available
Toxicity to algae (acute)
No data available
Toxicity to algae (chronic)
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 Other adverse effects

No data available.

12.6 Other information

Other information
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Disposal considerations

Product

Dispose in accordance with federal, state and local regulations.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in accordance with federal, state and local regulations.

SECTION 14: Transport information

14.1 US DOT (Department of Transportation)

The product is not subject to DOT regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

Trade name: Mixing liquid without freeze protection (REF 51095)

Current version : 1.0.0, issued: 13.09.2022

Replaced version: -, issued: -

Region: USA

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15: Regulatory information

15.1 US Federal Regulations

Toxic Substances Control Act (TSCA)

According to the data available and/or specifications supplied by upstream suppliers, all components of this product are on the TSCA Inventory or are exempted from notification requirements.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to Table 302.4 "List of Hazardous Substances and Reportable Quantities".

Clean Air Act (CAA): Hazardous Air Pollutants (HAPS)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being "Hazardous Air Pollutants".

Clean Water Act (CWA) Section 307 (Toxic Pollutants) and Section 311 (Hazardous Substances)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered to be "Hazardous Substances".

EPCRA SARA Section 313, Toxic Chemical Release Inventory

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to "SARA Reporting".

Emergency Planning & Community Right-to-Know Act (EPCRA) - Sections 302 and 304

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to reporting requirements.

Clean Air Act (CAA) - Section 602 Ozone depleting substances

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as ozone depleting substance.

15.2 US State Regulations

Pennsylvania State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered to be "Hazardous Substances".

No	Substance name	CAS no.
1	silicon dioxide, chemically prepared	7631-86-9

New Jersey State Right to Know Hazardous Substance List

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered to be "Hazardous Substances".

Massachusetts State Right to Know Hazardous Substance List

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered to be "Hazardous Substances".

California Code of Regulations Title 8 §339, Hazardous Substances List

The product contains following substance(s) that are considered to be "Hazardous Substances".

No	Substance name	CAS no.
----	----------------	---------

Trade name: Mixing liquid without freeze protection (REF 51095)

Current version : 1.0.0, issued: 13.09.2022

Replaced version: -, issued: -

Region: USA

1	silicon dioxide, chemically prepared	7631-86-9
----------	---	------------------

Right to Know - California State - Proposition 65		
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered to be "Hazardous Substances".		

SECTION 16: Other information, including date of preparation or last revision

16.1 Other information

No data available.

16.2 Date of preparation/revision of the SDS

Current version	1.0.0	13.09.2022
Replaced version	-	-

16.3 Department issuing safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

16.4 Conclusions

This information is based on our present knowledge and experience.
 The safety data sheet describes products with a view to safety requirements.
 It does not, however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.

Prod-ID 621976

16.5 Key / Legend

Safety Data Sheet



Trade name: Mixing liquid without freeze protection (REF 51095)

Current version : 1.0.0, issued: 13.09.2022

Replaced version: -, issued: -

Region: USA

ACGIH - American Conference of Governmental Industrial Hygienists
ATE – Acute Toxicity Estimate
BOD - Biochemical Oxygen Demand
CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania
CAS - Chemical Abstracts Service
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
CFR - Code of Federal Regulations (US)
CLP - Classification, Labelling, and Packaging
DOT - Department of Transportation Commission
ECHA – European Chemicals Agency
EC / EL – Effective Concentration / Effective Loading
EPA - Environmental Protection Agency
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC – Intermediate Bulk Container
ICAO - International Civil Aviation Organization
IDL - Ingredient Disclosure List
IDLH - Immediately Dangerous to Life and Health
IMDG - International Maritime Dangerous Goods
IUCLID - International Uniform Chemical Information Database
Kow - Octanol/water partition coefficient
LD/LC - Lethal Dose/ Lethal Concentration
MARPOL – Marine Pollution
MEL - Maximum Exposure Limits
NFPA - National Fire Protection Agency
NIOSH - National Institute for Occupational Safety and Health
NJTSR - New Jersey Trade Secret Registry
NOEL/NOEC – No Observed Effect Level / No Observed Effect Concentration
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PEL- Permissible Exposure Limit
RCRA - Resource Conservation and Recovery Act
SARA - Superfund Amendments and Reauthorization Act
STEL - Short-term Exposure Limit
STOT – Specific Target Organ Toxicity
TDG - Transportation of Dangerous Goods
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
UN/NA - United Nations /North American
US - United States
VLE - Exposure Limit Value (Mexico)
VOC – Volatile Organic Compounds