

MATERIAL SAFETY DATA SHEET

According to EC Directives 91/115/EEC and 93/112/EEC

Date of Issue: 31.Mar.2004

Version: 001

Date of Print: 3.May.2004

KLEMA

Willi Geller Creation®

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1 Product and company identification

Trade Name: Willi Geller Crea Alloy Bond

Products: Crea Alloy Bond

Manufacturer: KLEMA Dentalprodukte GmbH
Koblacherstraße 3a, A-6812 Meiningen
Phone: +43 5522 36837

Raw materials producer and supplier:

SIHELCO AG
Hauptstraße 56, CH-4127 Birsfelden
Tel. +41 63 313 0606

Siegfried AG
CH-4800 Zofingen
Tel. +41 62 746 11 11

KRONOS TITAN-GmbH
Peschstraße 5, D-51373 Leverkusen
Tel. +49 214 356-0

Riedel-de Haën AG
Postfach 10 02 62, D-30918 Seelze
Tel. +49 5137 999-0

DEGUSSA AG
Weißfrauenstr 9, D-60311 Frankfurt
Tel. + 49 69 218-01

Fluka Chemie AG
Industriestraße 25, CH-9471 Buchs
Tel. +41 81 755 25 11

Information: +43 5522 36837-33 (Klema GmbH; Ceramics Div.)

Emergency contact number: +43 1 40643-43 (Vergiftungsinformationszentrale Wien)

2 Composition/information on ingredients

Chemical characterization: Dental ceramic

<u>Component</u>	<u>Amount in wt.-%</u>	<u>CAS #</u>	<u>EINECS #</u>
Silicon Dioxide SiO ₂	22-26	14464-46-1	238-455-4
Aluminum Oxide Al ₂ O ₃	3-5	1344-28-1	215-691-6
Potassium Oxide K ₂ O	5-8	12136-45-7	-
Sodium Oxide Na ₂ O	2-4	1313-59-3	215-208-9
Magnesium Oxide MgO	-	1309-48-4	215-171-9
Lithium Oxide Li ₂ O	<0,1	12057-24-8	-
Calcium Oxide CaO	-	1305-78-8	215-138-9
Barium Oxide BaO	3-5	1304-28-5	215-127-9
Boron Trioxide B ₂ O ₃	4-6	1303-86-2	215-125-8
Titanium Dioxide TiO ₂	27-32	13463-67-7	236-675-5
Zirconium Oxide ZrO ₂	-	1314-23-4	215-227-2
Phosphorus Pentoxide P ₂ O ₅	-	1314-56-3	215-236-1
Other Oxides (CeO ₂ , etc.)	-	-	-
Tin Dioxide SnO ₂	-	18282-10-5	242-159-0
Pentandiol-1,5	20-25	111-29-5	203-854-4
Sodium Acetate NaOAc	-	127-09-3	204-823-8
Propanediol-1,2	-	57-55-6	200-338-0
Ferric Oxide Fe ₂ O ₃	1-3	1309-37-1	215-168-2
Aerosil	-	61790-53-2	272-489-0
Water H ₂ O	Balance	7732-18-5	231-791-2

The product is a pasty material which contains liquid components and a dental porcelain powder. The porcelain obtained by thermal treatment is inert and exhibits completely different properties as compared to the above listed single components. Coloration is achieved by treatment with inorganic pigments.

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3 Potential hazards

NA

4 First-aid measures

After inhalation: Remove to fresh air, obtain medical attention for any breathing difficulty.
After contact with skin: Wash with soap and water. Get medical advice if irritation develops.
After contact with eyes: Wash thoroughly with running water. Get medical advice if irritation develops.
After ingestion (large amounts): Rinse mouth with water and seek medical advice, if necessary.

5 Fire-fighting measures

Suitable extinguishing media: water mist, foam, carbon dioxide, dry powder
Special hazards: Toxic metal oxide vapor may evolve upon intense heating
Other information: not combustible

6 Accidental Release Measures

Methods for Cleaning up/taking up: Pick up mechanically
Pick for disposal in tightly closed containers

7 Handling and storage

Handling: According to manufacturers information
Storage: Product must be stored in original container

8 Exposure control / personal protection

Exposure limits: NA
General protective measures: Avoid skin contact
Hygiene measures: Wash hands before breaks and after work
Respiratory protection: NA
Hand protection: Rubber gloves
Eye protection: Safety glasses
Body protection: NA

9 Physical and chemical properties

Appearance: Paste of various colors
Odor: odourless
Flash point: NA
Ignition temperature: NA
Lower explosion limit: NA
Upper explosion limit: NA
Bulk density:
Solubility: liquid componets soluble in water, rest is insoluble
pH value: NA

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10 Stability and reactivity

Thermal Decomposition:	No decomposition if used as prescribed
Hazardous Decomposition products:	None
Other information:	The product is stable

11 Toxicological information

Acute toxicity:	No data available
Additional information:	Toxicological investigations have not been performed yet

12 Ecological information

Elimination:	Can be separated mechanically in public sewage plants
Ecotoxicical impact:	No data available
Additional information:	No data available

13 Disposal considerations

If recycling is impossible. dispose in accordance with local, state, and federal regulations for relatively nontoxic inorganics.

14 Transport information

Road transport		
	ADR	not restricted
	RID	not restricted
Marine transport		
	IMDG/UN	not restricted
Air transport		
	ICAO/IATA-DGR	not restricted
Dispatch by post		Permitted

15 Regulatory information

Labeling in accordance with GefStoffV/EC	Hazard warning labeling not compulsory
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16 Other Information

This information is based on our present state of knowledge.
It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

This MSDS is not subject to our regular update service.
It is forbidden by law to change the information within this MSDS