Names of Material, Preparation and Company

trade name: Grandio

manufacturer/supplier VOCO GmbH Tel.: +49-4721/71 9 - 0 Anton-Flettner-Str. 1-3 address: Fax: +49-4721/71 9 - 109

D - 27472 Cuxhaven

Scientific Department information sector: Tel.: +49-47 21/71 9 - 0 emergency information: Scientific Department **emergency call:** +49-47 21/71 9 - 0

2 **Composition/Details on Components**

preparation: mixture of diff. dimethacrylates, silicate fillers, initiators, pigments, amines, additives

description: light-curing nanohybrid composite for fillings of all classes incl. inlays/onlays

hazardous ingredients:

name CAS-No. danger symbol R-categories content 41137-60-4 12-14 % 36-38 **UDMA** Xi **BIS-GMA** 1565-94-2 10-12 % Xi 36-38

3 **Possible Risks**

> designation of risk: Xi. irritant special details of risk (R-categories): 36/37/38

detrimental effects/symptoms: irritant in case of eye, skin and respiratory contact

First-Aid-Measures

general information:

after inhalation: fresh air, in case of indisposition or nausea contact a doctor

rinse thoroughly with plenty of water after skin contact: rinse thoroughly with water, contact a doctor after eye contact:

contact immediately a physician after swallowing:

material for dental or laboratory use only information for the attending physician:

5 **Fire Fighting Measures**

> suitable fire extinguishing agents: foam, carbon dioxide, powder fire extinguishers

unsuitable fire extinguishing agents: water particular hazards: none

no data available fire fighting protective equipment:

6 Measures in Case of Unintended Release

> measures related to persons: avoid eye and/or skin contact

environmental measures: do not let the material get in contact with sewerage systems

procedures of cleaning/uptake take up mechanically, use common absorbents

additional information: none

Handling and Storage 7.

7.1 handling: only by qualified staff in dental offices or dental laboratories

see instructions for use instructions for safe handling:

instructions on fire and explosion protection no special measurements are required

7.2 Storage: tightly closed at room temperature demands on storerooms and containers

store in good ventilated rooms

and areas

indications and prohibitions of storage together with other

do not store together with food materials:

keep out of the reach of children further details on storage conditions:

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8	Exposition Restriction and Personal Protective Equip	ment			
8.1	additional information on the equipment of technical facilities: none				
8.2	components with limitating values related to place of CAS-No. name	work:	kind	value	unit
	additional information: hazards related to place of wor	k are no	t known.		
8.3	personal protective equipment: dental office or laboratory working clothes				
	breathing protection	do not breeth or inhale vapour or dust			
	hand protection:	use of protective gloves is recommended			
	eye protection:	use of protective glasses is recommended			
	body protection:		-		
	protective and hygiene measures:	wash	ing hands		
9	Physical and Chemical Properties	4511	0		
9.1	appearance:	paste			
	form:	pasty			
	colour:		fferent shades		
0.2	odour:	speci	fic		
9.2	safety data: tested acc. to:	no de	ta available		
	pH upon delivery: pH of 10g/l H₂O and 20°C:		ita available		
	change of state:		ta available		
	boiling point/area:		ta available	°C	
	melting point/area:		ta available	°C	
	flash point:		ta available	°C	
	inflammability:	no da	ta available		
	ignition temperature:	no da	ta available	°C	
	autoignition:	no da	ta available		
	fire advancing properties:		ta available		
	explosion hazards:		ta available		
	explosion limits: LEL:	-	: no data availal	ole	
	vapour pressure (°C)		ta available	1.0	
	density (°C)		ta available	hPa	
	bulk density:		ta available	mg/l	
	solubility in water (20°C) (°C): in (°C)		ta available ta available	mg/l	
	solubility in fat:		ta available	1118/1	
	distribution coefficient n-octanol/water:		ta available		
	viscosity (°C):		ta available		
	solvent separation test:	no da	ta available	%	
	solvent content:	no da	ta available	%	
9.3	further particulars:	none			
10	Stability and Reactivity				
	conditions to be avoided:	light	exposition, heat		
	materials to be avoided:	radical releasing agents, e. g. peroxides			
	hazardous products of decomposition:	HCN, cyanides			
	further particulars:	none			

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11. Toxicological Data

11.1 toxicological Test: no data available **acute toxicity:** no data available

LD₅₀/LC₅₀: component kind value species method of determination

no data available specific symptoms in animal test: irritant effect/corrosive action: no data available sensitization: no data available no data available effects of repeated exposure or overexposure (subacute or chronic toxicity): no data available no data available carcinogenic and mutagenic effects hazardous to reproduction: no data available other particulars: no data available 11.2 practical experience: observations relevant to classifications: no data available

other observations:
no data available
11.3 general remarks: during long-standing product application risks have not become known.

12 Ecological Data

12.1 information on elimination: no data available

procedure analytic method degree of elimination classification

evaluation: no data available **additional information:** no data available

12.2 behaviour in environmental compartments: no data available **mobility and bioaccumulation potential:** no data available

additional information: not available aquatic toxicity: no data available

organism test period test method result assessment

behaviour in sewage plants: no data available respiratory inhibition of local vitalised sludge: no data available additional information: none

CSB-value:no data available mg/g **BSB₅-value:**no data available mg/g

AOX-indication: no data available

contains the following heavy metals and compounds (corresponding to guideline 76/464/EWG) according to

preparation formula: none
general information: none

13 Disposal Instructions

13.1 product:

recommendation: obey local and governmental regulations

waste category waste name accountability

3.2 uncleaned packing material: obey local and governmental regulations recommendation: obey local and governmental regulations cleaning agents: common cleansing agents for the laboratory

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14 Particulars on Transport

14.1 land carriage:

ADR/RID/GGVS/GGVE-class: figure/letter: material no.:

warning label: risk no.:

designation of goods:

remarks:

14.2 inland transport by ship:

ADN/ADNR-class: figure/letter: category:

designation of goods:

remarks:

14.3 see transport:

IMDG/GGV sea class: UN-No.: PG:

EMS: MFAG:

marine pollutant: correct technical name:

remarks:

14.4 air transport:

ICAO/IATA-class: UN/ID-No.: PG:

correct technical name:

remarks

14.5 further particulars: No hazardous goods within the meaning of transport regulations

15 Regulation

15.1 marking: acc. to governmental regulations concerning declaration of dangerous chemicals no marking is prescribed

danger symbol and designation: none

contains:
R-categories: none
S-categories: none

special marking of particular preparations: none

15.2 national regulations: acc. to article 10 of Directive 66/379 EEC and 67/548 EEC

restrictions of employment: none instructions in case of interference: none

classification acc. VbF: not applicable technical instruction air: not applicable water pollution class: no data available

other regulations, restrictions and prohibitions: Directive 91/155 EEC; medical product acc. to 93/42 EEC (medical

products).

16 Other Particulars

All information above has been given according to our present state of knowledge. It has been compiled to the best of our knowledge. The above -mentioned data do not represent a guarantee on characteristics. They only describe the safety requirements with regard to our products. They do not represent an assurance of product

characteristics in the meaning of guarantees.

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