

**VOCO – Material Safety Data Sheet (Directive 91/155/EEC)**

In Australia, this product is hazardous (criteria of NOHSC) and is a dangerous good (ADG Code)  
Poisons Schedule – none (Australia’s SUSDP)

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<b>1</b>	<b><u>Names of Material, Preparation and Company</u></b> trade name: <b>Bifix DC</b> manufacturer/supplier: <b>VOCO GmbH</b> address: <b>Anton-Flettner-Str. 1-3 D - 27472 Cuxhaven</b> information sector: <b>Scientific Department</b> emergency information: <b>Scientific Department</b>	<b>Tel.:</b> +49-4721/71 9 - 0 <b>Fax:</b> +49-4721/71 9 - 109 <b>Tel.:</b> +49-47 21/71 9 - 0 <b>emergency call:</b> +49-47 21/71 9 - 0										
<b>2</b>	<b><u>Composition/Details on Components</u></b> preparation: mixture of diff. dimethacrylates, silicate fillers, initiators, pigments and additives description: dually curing radiopaque adhesive composite-based luting system hazardous ingredients: <table><thead><tr><th>name</th><th>CAS-No.</th><th>content</th><th>danger symbol</th><th>R-categories</th></tr></thead><tbody><tr><td>BIS-GMA</td><td>1565-94-2</td><td>20-22 %</td><td>Xi</td><td>36-38</td></tr></tbody></table>	name	CAS-No.	content	danger symbol	R-categories	BIS-GMA	1565-94-2	20-22 %	Xi	36-38	
name	CAS-No.	content	danger symbol	R-categories								
BIS-GMA	1565-94-2	20-22 %	Xi	36-38								
<b>3</b>	<b><u>Possible Risks</u></b> designation of risk: special details of risk (R-categories): detrimental effects/symptoms:	Xn, harmful 20/21/22 Harmful by inhalation, in contact with skin and if swallowed										
<b>4</b>	<b><u>First-Aid-Measures</u></b> general information: after inhalation: after skin contact: after eye contact: after swallowing: information for the attending physician:	fresh air, in case of indisposition or nausea contact a doctor rinse thoroughly with plenty of water rinse thoroughly with water, contact a doctor contact immediately a physician material for dental or laboratory use only										
<b>5</b>	<b><u>Fire Fighting Measures</u></b> suitable fire extinguishing agents: unsuitable fire extinguishing agents: particular hazards: fire fighting protective equipment:	foam, carbon dioxide, powder fire extinguishers water none no data available										
<b>6</b>	<b><u>Measures in Case of Unintended Release</u></b> measures related to persons: environmental measures: procedures of cleaning/uptake additional information:	avoid eye and/or skin contact do not let the material get in contact with sewerage systems take up mechanically, use common absorbents none										
<b>7.</b>	<b><u>Handling and Storage</u></b>											
<b>7.1</b>	<b>handling:</b> only by qualified staff in dental offices or dental laboratories <b>instructions for safe handling:</b> <b>instructions on fire and explosion protection</b>	see instructions for use no special measurements are required										
<b>7.2</b>	<b>Storage:</b> <b>demands on storerooms and containers</b>  <b>indications and prohibitions of storage together with other materials:</b> <b>further details on storage conditions:</b>	tightly closed at room temperature store in good ventilated rooms and areas  do not store together with food keep out of the reach of children										

<b>8</b>	<b><u>Exposition Restriction and Personal Protective Equipment</u></b>			
<b>8.1</b>	<b>additional information on the equipment of technical facilities:</b> none			
<b>8.2</b>	<b>components with limiting values related to place of work:</b>			
	<b>CAS-No.</b>	<b>name</b>	<b>kind</b>	<b>value      unit</b>
	<b>additional information:</b> hazards related to place of work are not known.			
<b>8.3</b>	<b>personal protective equipment:</b>		dental office or laboratory working clothes	
	<b>breathing protection</b>		do not breathe or inhale vapour or dust	
	<b>hand protection:</b>		use of protective gloves is recommended	
	<b>eye protection:</b>		use of protective glasses is recommended	
	<b>body protection:</b>			
	<b>protective and hygiene measures:</b>		washing hands	
<b>9</b>	<b><u>Physical and Chemical Properties</u></b>			
<b>9.1</b>	<b>appearance:</b>		paste/paste	
	<b>form:</b>		pasty/pasty	
	<b>colour:</b>		beige/white	
	<b>odour:</b>		specific	
<b>9.2</b>	<b>safety data:</b>	<b>tested acc. to:</b>		
	<b>pH upon delivery:</b>		no data available	
	<b>pH of 10g/l H<sub>2</sub>O and 20°C:</b>		no data available	
	<b>change of state:</b>		no data available	
	<b>boiling point/area:</b>			°C
	<b>melting point/area:</b>			°C
	<b>flash point:</b>			°C
	<b>inflammability:</b>			
	<b>ignition temperature:</b>			°C
	<b>autoignition:</b>			
	<b>fire advancing properties:</b>			
	<b>explosion hazards:</b>			
	<b>explosion limits: LEL:</b>		UEL: no data available	
	<b>vapour pressure (°C)</b>		no data available	
	<b>density (°C)</b>			hPa
	<b>bulk density:</b>		no data available	
	<b>solubility in water (20°C) (°C):</b>			mg/l
	<b>in (°C)</b>			mg/l
	<b>solubility in fat:</b>		no data available	
	<b>distribution coefficient n-octanol/water:</b>		no data available	
	<b>viscosity (°C):</b>		no data available	
	<b>solvent separation test:</b>			%
	<b>solvent content:</b>			%
<b>9.3</b>	<b>further particulars:</b>		none	
<b>10</b>	<b><u>Stability and Reactivity</u></b>			
	<b>conditions to be avoided:</b>		light exposition, heat	
	<b>materials to be avoided:</b>		radical releasing agents, e. g. peroxides	
	<b>hazardous products of decomposition:</b>		none if used in the recommended way	
	<b>further particulars:</b>		none	

<b>11. Toxicological Data</b>						
11.1 toxicological Test: no data available						
acute toxicity: no data available						
LD <sub>50</sub> /LC <sub>50</sub> :	component	kind	value	species	method of determination	
specific symptoms in animal test:				no data available		
irritant effect/corrosive action:				no data available		
sensitization:				no data available		
effects of repeated exposure or overexposure (subacute or chronic toxicity):				no data available		
carcinogenic and mutagenic effects hazardous to reproduction:				no data available		
other particulars:				no data available		
11.2 practical experience: no data available						
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.						
<b>12 Ecological Data</b>						
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: none						
12.3 environmental toxic effects: no data 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						
12.4 additional information: none						
CSB-value: no data available mg/g						
BSB <sub>5</sub> -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						
<b>13 Disposal Instructions</b>						
13.1 product: obey local and governmental regulations						
recommendation:	waste name		accountability			
waste category						
13.2 uncleaned packing material: obey local and governmental regulations						
recommendation: obey local and governmental regulations						
cleaning agents: common cleansing agents for the laboratory						

<b>14 Particulars on Transport</b>		
<b>14.1 land carriage:</b>		
ADR/RID/GGVS/GGVE-class:	figure/letter: risk no.:	material no.:
warning label: designation of goods: remarks:		
<b>14.2 inland transport by ship:</b>		
ADN/ADNR-class:	figure/letter:	category:
designation of goods: remarks:		
<b>14.3 see transport:</b>		
IMDG/GGV sea class:	UN-No.:	PG:
EMS:	MFAG:	
marine pollutant: correct technical name: remarks:		
<b>14.4 air transport:</b>		
ICAO/IATA-class:	UN/ID-No.:	PG:
correct technical name: remarks:		
<b>14.5 further particulars:</b> No hazardous goods within the meaning of transport regulations		
<b>15 Regulation</b>		
<b>15.1 marking:</b> acc. to governmental regulations concerning declaration of dangerous chemicals no marking is prescribed		
<b>danger symbol and designation:</b> none		
<b>contains:</b>		
<b>R-categories:</b>	none	
<b>S-categories:</b>	none	
<b>special marking of particular preparations:</b> none		
<b>15.2 national regulations:</b> acc. to article 10 of Directive 66/379 EEC and 67/548 EEC		
<b>restrictions of employment:</b> none		
<b>instructions in case of interference:</b> none		
<b>classification acc. VbF:</b> not applicable		
<b>technical instruction air:</b> not applicable		
<b>water pollution class:</b> no data available		
<b>other regulations, restrictions and prohibitions:</b> Directive 91/155 EEC; medical product acc. to 93/42 EEC (medical products).		
<b>16 Other Particulars</b>		
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.		