

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

<b>1</b>	<b><u>Names of Material, Preparation and Company</u></b>				
	<b>trade name:</b>	<b>Polofil Supra/Caps</b>			
	<b>manufacturer/supplier</b>	VOCO GmbH	<b>Tel.:</b>	+49-4721/71 9 - 0	
	<b>address:</b>	Anton-Flettner-Str. 1-3	<b>Fax:</b>	+49-4721/71 9 - 109	
		D - 27472 Cuxhaven			
	<b>information sector:</b>	Scientific Department	<b>Tel.:</b>	+49-47 21/71 9 - 0	
	<b>emergency information:</b>	Scientific Department	<b>emergency call:</b>	+49-47 21/71 9 - 0	
<b>2</b>	<b><u>Composition/Details on Components</u></b>				
	<b>preparation:</b>	mixture of diff. dimethacrylates, silicate fillers, initiators, stabilizers, pigments, additives			
	<b>description:</b>	light-curing universal microhybrid composite			
	<b>hazardous ingredients:</b>				
	<b>name</b>	<b>CAS-No.</b>	<b>content</b>	<b>danger symbol</b>	<b>R-categories</b>
	UDMA	41137-60-4	8-10 %	Xi	36/38
<b>3</b>	<b><u>Possible Risks</u></b>				
	<b>designation of risk:</b>	Xn, harmful			
	<b>special details of risk (R-categories):</b>	20/21/22			
	<b>detrimental effects/symptoms:</b>	Harmful by inhalation, in contact with skin and if swallowed			
<b>4</b>	<b><u>First-Aid-Measures</u></b>				
	<b>general information:</b>				
	<b>after inhalation:</b>	fresh air, in case of indisposition or nausea contact a doctor			
	<b>after skin contact:</b>	rinse thoroughly with plenty of water			
	<b>after eye contact:</b>	rinse thoroughly with water, contact a doctor			
	<b>after swallowing:</b>	contact immediately a physician			
	<b>information for the attending physician:</b>	material for dental or laboratory use only			
<b>5</b>	<b><u>Fire Fighting Measures</u></b>				
	<b>suitable fire extinguishing agents:</b>	foam, carbon dioxide, powder fire extinguishers			
	<b>unsuitable fire extinguishing agents:</b>	water			
	<b>particular hazards:</b>	none			
	<b>fire fighting protective equipment:</b>	no data available			
<b>6</b>	<b><u>Measures in Case of Unintended Release</u></b>				
	<b>measures related to persons:</b>	avoid eye and/or skin contact			
	<b>environmental measures:</b>	do not let the material get in contact with sewerage systems			
	<b>procedures of cleaning/uptake</b>	take up mechanically, use common absorbents			
	<b>additional information:</b>	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>	see instructions for use			
	<b>instructions on fire and explosion protection</b>	no special measurements are required			
<b>7.2</b>	<b>Storage:</b>				
	<b>demands on storerooms and containers</b>	tightly closed at room temperature store in good ventilated rooms and areas			
	<b>indications and prohibitions of storage together with other materials:</b>	do not store together with food			
	<b>further details on storage conditions:</b>	keep out of the reach of children			

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

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11.	<b>Toxicological Data</b>				
11.1	<b>toxicological Test:</b> no data available				
	<b>acute toxicity:</b> no data available				
	<b>LD<sub>50</sub>/LC<sub>50</sub>:</b>	<b>component</b>	<b>kind</b>	<b>value</b>	<b>species</b>
					<b>method of determination</b>
	<b>specific symptoms in animal test:</b>			no data available	
	<b>irritant effect/corrosive action:</b>			no data available	
	<b>sensitization:</b>			no data available	
	<b>effects of repeated exposure or overexposure (subacute or chronic toxicity):</b>			no data available	
	<b>carcinogenic and mutagenic effects hazardous to reproduction:</b>			no data available	
	<b>other particulars:</b>			no data available	
11.2	<b>practical experience:</b> no data available				
	<b>observations relevant to classifications:</b> no data available				
	<b>other observations:</b> no data available				
11.3	<b>general remarks:</b> during long-standing product application risks have not become known.				
12	<b><u>Ecological Data</u></b>				
12.1	<b>information on elimination:</b> no data available				
	<b>procedure</b>	<b>analytic method</b>	<b>degree of elimination</b>	<b>classification</b>	
	<b>evaluation:</b> no data available				
	<b>additional information:</b> no data available				
12.2	<b>behaviour in environmental compartments:</b> no data available				
	<b>mobility and bioaccumulation potential:</b> no data available				
	<b>additional information:</b> none				
12.3	<b>environmental toxic effects:</b> no data available				
	<b>aquatic toxicity:</b> no data available				
	<b>organism</b>	<b>test period</b>	<b>test method</b>	<b>result</b>	<b>assessment</b>
	<b>behaviour in sewage plants:</b> no data available				
	<b>respiratory inhibition of local vitalised sludge:</b> no data available				
12.4	<b>additional information:</b> none				
	<b>CSB-value:</b> no data available mg/g				
	<b>BSB<sub>5</sub>-value:</b> no data available mg/g				
	<b>AOX-indication:</b> no data available				
	<b>contains the following heavy metals and compounds (corresponding to guideline 76/464/EEG) according to preparation formula:</b> none				
	<b>general information:</b> none				
13	<b><u>Disposal Instructions</u></b>				
13.1	<b>product:</b>				
	<b>recommendation:</b> obey local and governmental regulations				
	<b>waste category</b>	<b>waste name</b>	<b>accountability</b>		
13.2	<b>uncleaned packing material:</b>				
	<b>recommendation:</b> obey local and governmental regulations				
	<b>cleaning agents:</b> common cleansing agents for the laboratory				

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<b>14</b>	<b><u>Particulars on Transport</u></b>		
<b>14.1</b>	<b>land carriage:</b>		
	ADR/RID/GGVS/GGVE-class:	figure/letter:	material no.:
	warning label:	risk no.:	
	designation of goods:		
	remarks:		
<b>14.2</b>	<b>inland transport by ship:</b>		
	ADN/ADNR-class:	figure/letter:	category:
	designation of goods:		
	remarks:		
<b>14.3</b>	<b>see transport:</b>		
	IMDG/GGV sea class:	UN-No.:	PG:
	EMS:	MFAG:	
	marine pollutant:		
	correct technical name:		
	remarks:		
<b>14.4</b>	<b>air transport:</b>		
	ICAO/IATA-class:	UN/ID-No.:	PG:
	correct technical name:		
	remarks:		
<b>14.5</b>	<b>further particulars:</b> No hazardous goods within the meaning of transport regulations		
<b>15</b>	<b><u>Regulation</u></b>		
<b>15.1</b>	<b>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</b>	<b>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</b>	<b><u>Other Particulars</u></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.		