

**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)

VOCO Australia, PO Box 209 Osborne Park WA 6917. Tel: 0448 102 804 / Fax: (08) 9440 1874

<b>1</b>	<b><u>Names of Material, Preparation and Company</u></b> <b>trade name:</b> Amalgam Liner <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>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> <b>preparation:</b> mixture of silver, sodium and calcium fluoride, ethyl acetate, cellulose esters and additives <b>description:</b> ready-to-use liquid liner with atomizes silver <b>hazardous ingredients:</b>											
	<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>ethyl acetate</td><td>141-78-6</td><td>55-60 %</td><td>F</td><td>11, 18</td></tr></tbody></table>	name	CAS-No.	content	danger symbol	R-categories	ethyl acetate	141-78-6	55-60 %	F	11, 18	
name	CAS-No.	content	danger symbol	R-categories								
ethyl acetate	141-78-6	55-60 %	F	11, 18								
<b>3</b>	<b><u>Possible Risks</u></b> <b>designation of risk:</b> <b>special details of risk (R-categories):</b> <b>detrimental effects/symptoms:</b>	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> <b>general information:</b> <b>after inhalation:</b> <b>after skin contact:</b> <b>after eye contact:</b> <b>after swallowing:</b> <b>information for the attending physician:</b>	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> <b>suitable fire extinguishing agents:</b> <b>unsuitable fire extinguishing agents:</b> <b>particular hazards:</b> <b>fire fighting protective equipment:</b>	foam, carbon dioxide, powder fire extinguishers water none no data available										
<b>6</b>	<b><u>Measures in Case of Unintended Release</u></b> <b>measures related to persons:</b> <b>environmental measures:</b> <b>procedures of cleaning/uptake</b> <b>additional information:</b>	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 keep away from ignition sources										
<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										

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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:			
	<b>CAS-No.</b>	<b>name</b>	<b>kind</b>	<b>value</b> <b>unit</b>
	additional information: 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 breath 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>	liquid		
	<b>form:</b>	liquid		
	<b>colour:</b>	silvery after shaking		
	<b>odour:</b>	ester-like		
<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>	no data available      °C		
	<b>melting point/area:</b>	no data available      °C		
	<b>flash point:</b>	no data available      °C		
	<b>inflammability:</b>	no data available		
	<b>ignition temperature:</b>	no data available      °C		
	<b>autoignition:</b>	no data available		
	<b>fire advancing properties:</b>	no data available		
	<b>explosion hazards:</b>	no data available		
	<b>explosion limits: LEL:</b>	<b>UEL:</b> no data available		
	<b>vapour pressure (°C)</b>	no data available		
	<b>density (°C)</b>	no data available      hPa		
	<b>bulk density:</b>	no data available		
	<b>solubility in water (20°C) (°C):</b>	no data available      mg/l		
	<b>in (°C)</b>	no data available      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>	no data available      %		
	<b>solvent content:</b>	no data available      %		
<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>	strong alkaline or acid conditions		
	<b>materials to be avoided:</b>	strong alkalines and acids		
	<b>hazardous products of decomposition:</b>	acetic acid		
	<b>further particulars:</b>	none		

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<b>11. Toxicological Data</b>						
<b>11.1</b>	<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		
<b>11.2</b>	<b>practical experience:</b> no data available					
	<b>observations relevant to classifications:</b> no data available					
	<b>other observations:</b> no data available					
<b>11.3</b>	<b>general remarks:</b> during long-standing product application risks have not become known.					
<b>12 <u>Ecological Data</u></b>						
<b>12.1</b>	<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					
<b>12.2</b>	<b>behaviour in environmental compartments:</b> no data available					
	<b>mobility and bioaccumulation potential:</b> no data available					
	<b>additional information:</b> none					
<b>12.3</b>	<b>environmental toxic effects:</b> no data available					
	<b>aquatic toxicity:</b>	<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					
<b>12.4</b>	<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/EWG) according to preparation formula:</b> none					
	<b>general information:</b> none					
<b>13 <u>Disposal Instructions</u></b>						
<b>13.1</b>	<b>product:</b>					
	<b>recommendation:</b> obey local and governmental regulations					
	<b>waste category</b>	<b>waste name</b>	<b>accountability</b>			
<b>13.2</b>	<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: risk no.:	material no.:
	warning label:		
	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.		