

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

1	<u>Names of Material, Preparation and Company</u> trade name: Bifluorid manufacturer/supplier VOCO GmbH address: Anton-Flettner-Str. 1-3 D - 27472 Cuxhaven information sector: Scientific Department emergency information: Scientific Department	Tel.: +49-4721/71 9 - 0 Fax: +49-4721/71 9 - 109 Tel.: +49-47 21/71 9 - 0 emergency call: +49-47 21/71 9 - 0															
2	<u>Composition/Details on Components</u> preparation: Mixture of sodium and calcium fluoride, cellulose derivatives, fumed silica, ethyl acetate and additives description: effective fluoride varnish for caries prophylaxis hazardous ingredients:	<table border="1"><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>sodium fluoride</td><td>7681-46-4</td><td>6 %</td><td>T</td><td>25-32-36/38</td></tr><tr><td>ethyl acetate</td><td>141-78-6</td><td>65-70 %</td><td>F</td><td>11</td></tr></tbody></table>	name	CAS-No.	content	danger symbol	R-categories	sodium fluoride	7681-46-4	6 %	T	25-32-36/38	ethyl acetate	141-78-6	65-70 %	F	11
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sodium fluoride	7681-46-4	6 %	T	25-32-36/38													
ethyl acetate	141-78-6	65-70 %	F	11													
3	<u>Possible Risks</u> 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															
4	<u>First-Aid-Measures</u> 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															
5	<u>Fire Fighting Measures</u> 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															
6	<u>Measures in Case of Unintended Release</u> 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															
7.	<u>Handling and Storage</u>																
7.1	handling: only by qualified staff in dental offices or dental laboratories instructions for safe handling: instructions on fire and explosion protection	see instructions for use avoid static electricity															
7.2	Storage: demands on storerooms and containers indications and prohibitions of storage together with other materials: further details on storage conditions:	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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8	<u>Exposition Restriction and Personal Protective Equipment</u>			
8.1	additional information on the equipment of technical facilities: none			
8.2	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.			
8.3	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		
9	<u>Physical and Chemical Properties</u>			
9.1	appearance:	suspension, if thoroughly shaken		
	form:	liquid		
	colour:	white to slight yellow		
	odour:	fruity		
9.2	safety data:	tested acc. to:		
	pH upon delivery:	no data available		
	pH of 10g/l H₂O 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:	-4° C		
	flammability:	no data available		
	ignition temperature:	430° C		
	autoignition:	no data available		
	fire advancing properties:	no data available		
	explosion hazards:	no data available		
	explosion limits: LEL: 2.1 Vol. %	UEL: 11.5 Vol. %		
	vapour pressure (°C)	no data available		
	density (°C)	no data available hPa		
	bulk density:	approx. 1.0 g/ml		
	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 %		
9.3	further particulars:	none		
10	<u>Stability and Reactivity</u>			
	conditions to be avoided:	open fire, strong acid/alkaline conditions		
	materials to be avoided:	strong acids, strong alkalines		
	hazardous products of decomposition:	acetic acid		
	further particulars:	keep away from ignition sources		

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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	
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.					
12 <u>Ecological Data</u>						
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	
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 <u>Disposal Instructions</u>						
13.1 product:	obey local and governmental regulations					
recommendation:	obey local and governmental regulations					
waste category	waste name					accountability
13.2 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	<u>Particulars on Transport</u>		
14.1	land carriage:		
	ADR/RID/GGVS/GGVE-class: 3	figure/letter: 3b	material no.:
	warning label: F	risk no.:	
	designation of goods: inflammable liquid		
	remarks:		
14.2	inland transport by ship:		
	ADN/ADNR-class: 3	figure/letter: 3b	category:
	designation of goods: inflammable liquid		
	remarks:		
14.3	see transport:		
	IMDG/GGV sea class: 3.2/II	UN-No.: 1173	PG:
	EMS:	MFAG:	
	marine pollutant:		
	correct technical name:		
	remarks:		
14.4	air transport:		
	ICAO/IATA-class: 3	UN/ID-No.: 1173	PG:
	correct technical name:		
	remarks:		
14.5	further particulars: hazardous goods within the meaning of transport regulations in amounts of > 1 l		
15	<u>Regulation</u>		
15.1	marking: acc. to governmental regulations concerning declaration of dangerous chemicals no marking is prescribed		
	danger symbol and designation:		
	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	<u>Other Particulars</u>		
	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.		