

MATERIAL SAFETY DATA SHEET

SECTION 1 Identification of the Substance/Preparation and of the Company

1.1 Product Trade Name	Metafil Flo	
1.2 Exporter: Name	Sun Medical Co., Ltd.	
Address	571-2 Furutaka-cho, Moriyama, Shiga, 524-0044, Japan	
Telephone	81-77-582-9981	
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SECTION 2 Composition / Information on Ingredients

	CAS No.	UN No.	Percent	Symbol	R-Phrase
Preparation	----	----	----	----	----
Ingredients	CAS No.	UN No.	Percent	Symbol	R-Phrase
2,2-Bis[4-(methacryloxy-polyethoxy)phenyl-]propane	41637-38-1	----	15– 20 %	----	----
Other bi-functional methacrylate monomers	----	----	10 – 15 %	---	----
Barium/silica-glass	----	----	55 - 65 %	---	----
Silica, amorphous	7631-86-9	----	approx. 5 %	---	----
3-(trimethoxysilyl) propyl methacrylate	2530-85-0	----	5 – 10 %	---	----

SECTION 3 Hazards Identification

3.1 Emergency overview	Combustible viscous substance.
3.2 Potential health effects	
Eye	May cause irritation.
Skin	May cause irritation, redness. Persons with known sensitivity to methacrylate may show allergic contact dermatitis.
Ingestion	No hazard in ordinary use.
Inhalation	No hazard in ordinary use.
Effects of Long-term or Repeated Exposure	Not known.

SECTION 4 First-Aid Measures

4.1 Eye	Immediately flush with flowing water for at least 15 minutes. Get medical attention.
4.2 Skin	Flush with soap and plenty of water. Get medical attention if irritation develops or persists.
4.3 Ingestion	Consult a physician.
4.4 Inhalation	No specific treatment is necessary by inhalation of a small amount. If breathing is difficult, give oxygen and get medical attention.

SECTION 5 Fire-Fighting Measures

5.0 Flammable properties	Combustible viscous substance.		
5.1 Flash point	Not known.	5.2 Autoignition temp.	Not known.
5.3 Flammable limit	Not applicable.	5.4 Suitable extinguishing media	Foam, dry chemical, carbon dioxide, dry sand or water.
5.5 Hazardous decomposition products	Toxic gasses such as carbon monoxide, may be released in a fire.	5.6 Special protective equipment	During emergency conditions, over- exposure to thermal decomposition products may cause health hazard. Self-contained breathing apparatus should be worn.

SECTION 6 Accidental Release Measures				
6.1	Personal precaution	For skin protection wear impervious protective gloves. For eye protection use safety goggle.		
6.2	Environmental precautions	This material is not expected to be significantly hazardous to the environment.		
6.3	Methods for cleaning-up	In case material is released or spilled, sweep up and place spill in a chemical waste container.		
SECTION 7 Handling and Storage				
7.1	Handling	Observe normal warehouse handling procedures. Protect against physical damages.		
7.2	Storage	Store in a cool, dry and dark well-ventilated place. Store away from direct sunlight. Do NOT store under pure nitrogen or oxygen-free gas.		
SECTION 8 Exposure Controls / Personal Protection				
8.1 Engineering measures				
	Ventilation	General and/or local ventilation should be sufficient.		
	Other protective equipment	Eye wash station near work area.		
8.2 Personal protection				
	Respiratory protection	None required during ordinary use of this product.		
	Hand protection	Use impervious protective gloves to prevent skin contact.		
	Eye protection	Use safety glasses.		
	Skin protection	Use impervious protective gloves to prevent skin contact.		
	Exposure guideline	Not known.		
SECTION 9 Physical and Chemical Properties				
9.1	Appearance	Colored paste.	9.2 Odor	Faint
9.3	pH	Not applicable	9.4 Vapor density	Not applicable
9.5	Boiling point	Not known(>150°C)	9.6 Solubility in water	Not known
9.7	Specific gravity	approx. 1.75		
SECTION 10 Stability and Reactivity				
10.1	Stability	Stable under ordinary conditions of use and storage.		
10.2	Conditions to avoid	High temperature (above 30°C), high humidity and direct light.		
10.3	Incompatibility (materials to avoid)	Radical initiator such as peroxide, persulfate, amine.		
10.4	Hazardous decomposition products	Carbon dioxide and carbon monoxide may form when heated to decomposition.		
10.5	Hazardous polymerization	May occur, especially when heated or irradiated or catalyzed.		
SECTION 11 Toxicological Information				
11.1	Health hazards (immediate, delayed, acute, chronic)	Contact with eyes and skin may cause irritation. Persons with sensitivity to methacrylates may show allergic contact dermatitis.		
11.2	Toxicity	Not known.		
11.3	Mutagenicity	Not known.		
11.4	Carcinogenicity	(NTP) No, (IARC) No (Group 3: amorphous silica)		
SECTION 12 Ecological Information				
12.1	General	This material is not expected to be significantly hazardous to the environment.		
12.2	Mobility	Not known.		
12.3	Degradability	Not known.		
12.4	Accumulation	Not known.		
12.5	Ecotoxicity	Not known.		
12.6	Other adverse effects	Not known.		

SECTION 13 Disposable Considerations	
13.1 Danger in disposal	Should be handled as hazardous waste.
13.2 Disposal method	Incinerate in accordance with all applicable environmental control regulations, or landfill in an industrial landfill which has approval to receive such wastes.
SECTION 14 Transport Information	
14.1 Precautions for transport	----- Observe normal care for transportation of sophisticated health care materials. Cover from rain, direct sunlight, heat and contaminating materials.
14.2 UN	-----
14.3 IMDG	-----
14.4 ICAO/IATA	-----
SECTION 15 Regulatory Information	
15.1 RTECS	-----
15.2 EU Classification	-----
SECTION 16 Other Information	
16.1	Prepared / Revised in March 2002 by Sun Medical Co., Ltd.
16.2	This Product is for dental professional use only.
16.3	The information above is believed to be accurate. However, Sun Medical Co., Ltd. makes NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Users must take their own investigations to determine the suitability of the information and the Product for their particular purposes.