



MATERIAL SAFETY DATA SHEET Fibrafill® FLOW

Date of issue: 05/06/2020 Version: 1.00 Revision date: 05/05/2020

Identification 1

Product identifier Fibrafill® FLOW 1.1 1.2 Recommended use and restrictions Dental products, restorative, for use only by dental professionals Manufacturer/Supplier details ADM, a.s., U Vodárny 2965/2, 1.3 616 00, Brno, Czech Republic TOX emergency number +420 511 205 360 1.4 2 Hazards identification Compound/mixture identification exempted from the requirements – product regulated as medical due to 2.1 (ES) Nr.1272/2008 agent or in vitro medical agent Hazard statement 2.2 Skin Sens. H317 May cause an allergic skin reaction. Eye Dam. 1 H319 Causes serious eye irritation. 2.3 Label elements Signal word: Warning Symbols: **Exclamation mark** Pictograms: GHS07 Prevention P261 Avoid breathing dust/fume/gas/mist/vapors/spray. 2.4 P272 Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/ P280 /face protection. 2.5 Response P302+352 IF ON SKIN: Wash with plenty of soap and water. P305+351+338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses if present and

easy to do - continue rinsing.

2.6 Storage P410 Protect from sunlight.

> P411 Store at temperatures not exceeding 25°C / 77°F

P501 Dispose of contents/container in accordance with 2.7 Disposal

applicable local/regional/national/international regulations.

2.8 Hazards or otherwise classified None

3 **Composition / Information on ingredients**

Ingredient	CAS No.	Content (%wt.)
Isopropylidenediphenol PEG-2 Dimethacrylate (Bis-EMA)	41637-38-1	<5
Bisphenol A Glycidyl Methacrylate (Bis-GMA)	1565-94-2	<20
Urethane Dimethacrylate (UDMA)	72869-86-4	<10
Triethylene glycol dimethacrylate (TEGDMA)	109-16-0	<10
2-hydroxyethyl methacrylate (HEMA)	868-77-9	<5
Camphorquinone (CQ)	10373-78-1	<1
2-(dimethylamino)ethyl methacrylate (DMAEMA)	2867-47-2	<1
3,5-di-tert-4-butylhydroxytoluene (BHT)	128-37-0	<1
Silane treated silica	248596-91-0	<5



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Sila	nne treated glass	65997-17-3	<60		
Sila	nne treated silica fibers	Not Assigned	<10		
4	First aid measures				
4.1	IF INHALED	Remove person to fresh air and keep com	fortable for breathing *		
4.1			-		
4.2	IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. *			
4.3	IF ON SKIN	Wash with plenty of soap and water. *			
4.4	IF SWALLOWED	Rinse mouth. Drink plenty of water.*			
	* IF SIGNS / SYMPTOMS / PE	RSON FEELING UNWELL, GET MEDICAL AT	TENTION!		
4.5	Most important symptoms (both acute and delayed)	See Section 11.1 Information on toxicological effects.			
5	Fire-fighting measures				
5.1	Suitable extinguishing media	Chemical foam, CO ₂ , water or dry chemical			
5.2	Special hazards arising from the substance or mixture	None inherent in this product			
5.3	Hazardous decomposition or by-products	Carbon dioxide and carb. monoxide are p	roduced during combustion.		
5.4	Special protective actions or fire-fighters	No special protective actions for fire-fighters are anticipated.			
6	Accidental release measures				
6.1	Personal precautions,	Remove people to safety.			
0.1	protective equipment	Prevent formation of dust .			
	and emergency procedures	Avoid contact with skin and eyes.			
		Wear personal protective clothing.			
6.2	Environmental precautions	Avoid release to the environment, otherwise contact competent authorities.			
6.3	Methods and materials for containment and cleaning up	Gather mechanically. Avoid formation of dust. Dispose in accordance with applicable local/regional/national/international regulations.			
6.4.	Additional information:	Information on safe handling – see Section	n 7.		
		Information on personal protective clothin Information on disposal – see Section 13.	ng – see Section 8.		
7	Handling and storage				
71	Drosputions for enfo boardling	Avoid broathing of dust suggested by	usting conding asignings		
7.1	Precautions for safe handling	Avoid breathing of dust created by cutting, sanding, grinding or machining. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Avoid breathing dust/fume/gas/mist/			

and water and then re-glove. Avoid breathing dust/fume/gas/mist/



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Fibrafill[®] FLOW Date of issue: 05/06/2020 Version: 1.00 Revision date: 05/05/2020 vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Avoid release to the environment. Avoid contact with oxidizing and/or reducing agents. Conditions for safe storage Store at 4-25 °C / 39-77 °F, away from direct sunlight, initiators, 7.2 oxidizing, and/or reducing agents. Store in unopened original including any incompatibilities packaging. Over time, spontaneous polymerization may occur. 7.3 Fire- and explosion protection Not required 8 Exposure controls / personal protection 8.1 **Exposure controls** Use general dilution ventilation and/or local exhaust ventilation to control airborne exposure and dust/fume/gas/mist/vapor/spray. If ventilation is not adequate use respiratory protection equipment. 8.2 Personal protective equipment 8.2.1 Protective and hygiene measures General rules of hygiene apply as when working with chemicals. Avoid contact with skin, eyes and clothes. Draw up and observe skin protection program. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. 8.2.2 Eye/face protection Use tightly fitting safety goggles. 8.2.3 Hand protection Use suitable safety gloves. Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be Note: The right safety gloves selection does not depend on the material only as some other parameters may vary depending on the manufacturer. Safety gloves are mostly made out of mixture of materials and it is not possible to calculate the material penetration time - it is therefore recommended to perform a test before use. Wear suitable protective clothes. 8.2.4 Skin protection 9 Physical and chemical properties 9.1 **Appearance** Generally physical form: Solid Specific physical form: **Paste** Color: Colorless to light yellow 9.2 Hardly noticeable but characteristic (moderate acrylate) Odor 9.3 Change in the physical state: Melting point/melting range: Not determined Boiling point/boiling range: Not determined Flash point: No flash point Auto-ignition temperature: Not determined Danger of explosion: Not determined Not determined

Density:





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	Vapor pressure:	Not determined
	Viscosity:	Not determined
	pH:	Not determined
	Solubility in/miscibility with Water:	Negligible
	Content of solvents:	Not determined
	Other information	No data available

10 Stability and reactivity

10.1 Reactivity: No unsafe reaction when handled and stored according to provisions

10.2 Chemical stability Stable

10.3 Possibility of hazardous reactions None known

10.4 Conditions to avoid Protect from light, store in original packaging.

10.5 Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition products None known

11 Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

If the component is listed in the Section 3 but does not appear in the table below, either no data are available or the data are not sufficient for the classification.

11.1 Acute toxicity

Name	Route	Species	Value
Overall Product			No data available; ATE 2000-5000mg/kg
Urethane Dimethacrylate (UDMA)	Ingestion	Rat (f+m)	LD50>5000mg/kg
2-hydroxyethyl methacrylate (HEMA)	Ingestion	Rat	LD50=5050mg/kg
	Dermal	Rabbit	LD50>3000mg/kg
2-(dimethylamino)ethyl methacrylate (DMAEMA)	Ingestion	Rat	LD50>2000mg/kg
	Dermal	Rat	LD50>2000mg/kg
	Dermal	Rabbit	LD50>3000mg/kg
3,5-di-tert-4-butylhydroxytoluene (BHT)	Ingestion	Rat (f+m)	LD50>6000mg/kg
	Dermal	Rat	LD50>2000mg/kg
Silane treated silica	Dermal		LD50 estimated to be >5000mg/kg
	Ingestion		LD50 estimated to be >5000mg/kg

Note: ATE = Acute Toxicity Estimate

11.2 Skin corrosion/Irritation Based on available data, the classification criteria are not met.

11.3 Sensitization effects May cause an allergic skin reaction.

Possible sensitization in case of persons suffering from hypersensitivity.

11.4 Respiratory sensitization Based on available data, the classification criteria are not met.



and environmental regulations/legislation

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11.5	Specific organ target toxicity Single exposure Prolonged exposure	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.			
11.6	Germ cell mutagenicity	Based on available data, the classification criteria are not met.			
11.7	Carcinogenicity	Based on available data, the	classification criteria are not met.		
12	Ecological information				
12.1	Persistence and degradability	The product has not been te	sted.		
12.2	Bioaccumulative potential	The product has not been te	The product has not been tested.		
12.3	Mobility in soil	The product has no been tested.			
12.4	Additional ecological information	Water hazard class 3 (self-assessment) – extremely hazardous for water. Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.			
12.5	Further information	Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.			
13	Disposal considerations				
13.1	Disposal methods	Dispose of contents/con local/regional/national/inter	tainer in accordance with applicable rational regulations.		
14	Transport information				
14.1	UN-number	ADR, ADN, IMDG, IATA	not regulated		
14.2	UN proper shipping name	ADR, ADN, IMDG, IATA	not regulated		
14.3	Transport hazard class	ADR, ADN, IMDG, IATA	not regulated		
14.4	Packaging group	ADR, IMDG, IATA	not regulated		
14.5	Environmental hazard	Marine pollutant:	no		
14.6	Special precautions for user	Not applicable			
14.7	Transport in bulk (Annex II of Marpol and the IBC Code)	Not applicable			
14.8	UN "Model Regulation"	not regulated			
15	Regulatory information	This MSDS meets the requirements of Regulation (EC) No. 1907/2006.			
15.1	Substance/mixture specific safety, health	Directive 2012/18/EU Named dangerous substances - ANNEX I: None			

Named dangerous substances - ANNEX I: None



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15.2 Chemical safety assessment A Chemical Safety Assessment has not been carried out.

15.3 US Federal regulation Contact ADM,a.s. for more information

15.4 311/312 Hazard categories Fire hazard No

Pressure hazard No
Reactivity hazard No
Immediate hazard No
Delayed hazard No

16 Other information

16.1 Other relevant phrases H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated

exposure.

H413 May cause long lasting harmful effects to aquatic life.

16.2 Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses

par Route (European Agreement concerning the International Carriage

of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of

Chemicals

CAS: Chemical Abstracts Service (American Chemical Society division)

LD50: Lethal dose, 50 percent

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