Printing date 14.05.2024

Version: 6 (replaces version 5)

Revision: 16.04.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

• Trade name: <u>Flow Viscous/Flow Viscous Baseliner</u> / Simplee Nano Flow Composite A1

· Article number:

434130-434133, 434144-434145, 435118, 434174, 434149, 434179, 110075-110084, 110102-110104, 110096, 110098, 110177-110187, 110204-110207, 435106, 435039

• 1.2 Relevant identified uses of the substance or mixture and uses advised against

- No further relevant information available.
- Application of the substance / the mixture Dental filling material
- \cdot 1.3 Details of the supplier of the safety data sheet

· Manufacturer	
MANI MEDICAL GERMANY GmbH	
Hertha-Sponer-Straße 2	
D-61191 Rosbach v.d.H.	
Germany	
Tel: +49 6003/8286-0	
www.mani-germany.com	

Supplier M+W Dental, Müller & Weygandt GmbH Reichardsweide 40 D-63654 Büdingen Germany Tel: +49 6042/880088 www.mwdental.de

• Further information obtainable from: R&D, MANI MEDICAL GERMANY GmbH, Tel:+049 6003/8286-0

· 1.4 Emergency telephone number:

+49 (0) 6003 82 86-0, MANI MEDICAL GERMANY GmbH (8:00 - 17:00) or

+49 (0) 6131 19240 Poison Information Center, University Mainz (24 h)

SECTION 2: Hazards identification

• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



· Signal word Warning

- Hazard-determining components of labelling: di-urethane dimethacrylate
- tetramethylene dimethacrylate

· Hazard statements

H317 May cause an allergic skin reaction.

- H412 Harmful to aquatic life with long lasting effects.
- · Precautionary statements
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- *P273 Avoid release to the environment.*
- P280 Wear protective gloves.
- *P333+P313 If skin irritation or rash occurs: Get medical advice/attention.*
- *P321* Specific treatment (see on this label).
- *P501* Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

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Printing date 14.05.2024

Version: 6 (replaces version 5)

Revision: 16.04.2024

(Contd. of page 1)

Trade name: Flow Viscous/Flow Viscous Baseliner / Simplee Nano Flow Composite A1

• Labelling of packages where the contents do not exceed 125 ml • Hazard pictograms



· Signal word Warning

· Hazard-determining components of labelling: di-urethane dimethacrylate tetramethylene dimethacrylate · Hazard statements H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. · Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P321 Specific treatment (see on this label). P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards

- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description:
- Urethandimethacrylate 1,4-Butandioldimethacrylate

· Dangerous components:

2		
CAS: 41137-60-4	di-urethane dimethacrylate	10-25%
	🚯 Aquatic Chronic 2, H411; 🚸 Skin Sens. 1B, H317	
		2.5-10%
EINECS: 218-218-1	� Skin Sens. 1B, H317	
· Additional informati	on For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information No special measures required.
- After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact
- Immediately wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.
- After eye contact
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing
- Rinse out mouth and then drink plenty of water.
- Call a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

Printing date 14.05.2024

Version: 6 (replaces version 5)

Revision: 16.04.2024

Trade name: Flow Viscous/Flow Viscous Baseliner / Simplee Nano Flow Composite A1

(Contd. of page 2)

• **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Adapt to environment.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid eye and skin contact with the substance.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.
- 6.4 Reference to other sections No dangerous substances are released.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling No special measures required.

- · Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles:

Close container immediately after use and protect product from light incidence. Storage between 10 °C and 25 °C.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: None.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Not necessary if room is well-ventilated.
- *Hand protection Protective gloves.*
- *Material of gloves Butyl rubber, BR Nitrile rubber, NBR*

(Contd. on page 4)

Printing date 14.05.2024

Version: 6 (replaces version 5)

Revision: 16.04.2024

Trade name: Flow Viscous/Flow Viscous Baseliner / Simplee Nano Flow Composite A1

(Contd. of page 3)

Penetration time of glove material 0,3 mm	
Penetration time 60 min. 0.11 mm	
Penetration time 10 min.	
Eye/face protection Safety glasses	
Body protection: Protective work clothing.	
SECTION 9: Physical and chemical prop	perties
9.1 Information on basic physical and chemical p	roperties
General Information	
Physical state	Fluid
Colour:	According to product specification
Odour: Odour threshold:	Weak, characteristic Not determined.
	$< -20 \circ C$
Melting point/freezing point:	< - 20 C undetermined
Boiling point or initial boiling point and boiling	anacierminea
range	251 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	113 °C
Auto-ignition temperature:	400 °C
Decomposition temperature:	Not determined.
pH	Mixture is non-soluble (in water).
	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
dynamic:	Not determined.
Solubility	
Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	1,3 mbar (110 ° C) Not determined.
Dousity and/or relative density	Not determined.
Density and/or relative density Density:	Not determined
Relative density	Not determined.
Vapour density	Not determined.
	Tor acter minea.
9.2 Other information	
Appearance: Form:	Viscous
Important information on protection of health an	
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	0.0.0/
Organic solvents:	0.0 %
Change in condition	Not determined
Evaporation rate	Not determined.
Information with regard to physical hazard classe	ys Void
	V 010
Explosives Flammable gases	Void

IE

Printing date 14.05.2024

Version: 6 (replaces version 5)

Revision: 16.04.2024

Trade name: Flow Viscous/Flow Viscous Baseliner / Simplee Nano Flow Composite A1

		(Contd. of page 4)
· Oxidising gases	Void	
· Gases under pressure	Void	
· Flammable liquids	Void	
· Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamma	ble	
gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions Exothermic polymerization

• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials:

In presence of radical formers (e. g. peroxides), deoxidizing substances, and/or heavy metal ions, polymerization with heat release is possible.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

tetramethylene dimethacrylate LD-50 oral > 5000 mg/kg (rat)

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

• Serious eye damage/irritation Based on available data, the classification criteria are not met.

• Respiratory or skin sensitisation May cause an allergic skin reaction.

- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.

• *Reproductive toxicity Based on available data, the classification criteria are not met.*

• *STOT-single exposure Based on available data, the classification criteria are not met.*

 $\cdot \textit{STOT-repeated exposure Based on available data, the classification criteria are not met.}$

 \cdot Aspiration hazard Based on available data, the classification criteria are not met.

• 11.2 Information on other hazards

· Endocrine disrupting properties

128-37-0 Butylated hydroxytoluene

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity: No further relevant information available.

• 12.2 Persistence and degradability No further relevant information available.

- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.

(Contd. on page 6)

List II

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Printing date 14.05.2024

Version: 6 (replaces version 5)

Revision: 16.04.2024

Trade name: Flow Viscous/Flow Viscous Baseliner / Simplee Nano Flow Composite A1

(Contd. of page 5)

· 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects

• Remark: Harmful to fish

· Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Must be specially treated adhering to official regulations.

· European waste catalogue

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

· Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· Recommended cleansing agents: Ethyl acetate

SECTION 14: Transport informati	ion	
· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk according instruments	g to IMO Not applicable.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

(Contd. on page 7)

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Trade name: Flow Viscous/Flow Viscous Baseliner / Simplee Nano Flow Composite A1

(Contd. of page 6)

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations

· Technical instructions (air):

Class Share in %

Ш 2.5-10

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Relevant phrases

H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.

- · Department issuing SDS: R&D, MANI MEDICAL GERMANY GmbH
- · Contact: Fr. R.Naveenakumar
- Date of previous version: 26.03.2024
- · Version number of previous version: 5
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

- ADR: Accord relatif au transport international 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

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Skin Sens. 1: Skin sensitisation - Category 1

- Skin Sens. 1B: Skin sensitisation Category 1B

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

• * Data compared to the previous version altered.