SAFETY DATA SHEETS

This SDS packet was issued with item: 077031842

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

070424499 070424515 077029119 077029499 077031818 70424499 70424515

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

070424507 077029507 077029515 077029523 077029531 077029549 077029606 077029614 077029622 077029630 077029648 077029655 077029663 077029671 077029689 077031826 077031834 077031859 077031867 077031875 077031883 077031891 077031909

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Not classified as hazardous according to criteria of Australian Safety and Compensation Council

1 Identification of the substance/preparation and of the company/undertaking

· Product details

- · Trade name: Grandio Flow
- · Application of the substance / the preparation Dental filling material
- *Manufacturer/Supplier:* Australien contact and address: VOCO Australia Pty Ltd. Suite 406-408, 251 Oxford Street, Bondi Junction, NSW 2022
- Further information obtainable from: Australia 0449 760 194
- · Information in case of emergency: Australia: 131126

2 Hazards identification

· Hazard description: Not applicable.

· Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

· Chemical characterization

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous	components:		
6606-59-3	HEDMA	Xi, N; R 36/37/38-51/53	5-10%
1565-94-2	BIS-GMA	Xi; R 36/38	2.5-5%

4 First aid measures

- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.

5 *Fire-fighting measures*

- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Person-related safety precautions: Not required.
- Measures for environmental protection: No special measures required.
- · Measures for cleaning/collecting: Pick up mechanically.

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Trade name: Grandio Flow

• Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling:
- · Information for safe handling:
- For dental use only.
- No special measures required.
- Information about fire and explosion protection: No special measures required.

· Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: See storage instructions on package

8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 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.
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- · Respiratory protection: Not required.
- · Protection of hands: Not required.
- · Material of gloves Not applicable.
- · Penetration time of glove material Not applicable.
- Eye protection: Not required.

9 Physical and chemical properties

· General Information	
Form:	Viscous
Colour:	According to product specification
Odour:	Characteristic
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Self-igniting:	Product is not selfigniting.
• Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined.
· Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. (Contd. on page 3)

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Trade name: Grandio Flow

- · Dangerous reactions No dangerous reactions known.
- · Dangerous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

· General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

13 Disposal considerations

- · Product:
- Recommendation Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· Land transport ADR/RID (cross-border)

- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:
- Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -

15 Regulatory information

· Australian Inventory of Chemical Substances

All ingredients are listed.

• Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

• Special labelling of certain preparations: Safety data sheet available for professional user on request.

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Trade name: Grandio Flow

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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.

· Department issuing MSDS: Scientific departement

· Contact: Tel.: +49 (0)4721-719-0

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1 Identification

- · Product identifier
- · Trade name: Grandio Flow
- · Application of the substance / the mixture Dental filling material
- · Details of the supplier of the safety data sheet

• Manufacturer/Supplier: VOCO GmbH Anton-Flettner-Str. 1-3 D-27472 Cuxhaven

- Information department: Scientific department tel. +49 (0)4721-719-0
- Emergency telephone number: Scientific department tel. +49 (0)4721-719-0

2 Hazard(s) identification

Health effects are based on the unmixed/uncured material. Under FDA regulations this product is classified as a medical device. Medical devices are exempt from the labelling provisions of GHS according to the Hazard Communication Standard (HCS).

· Classification of the substance or mixture



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

· Label elements

· Hazard pictograms



· Hazard statements

May cause an allergic skin reaction.

· Precautionary statements

Wear protective gloves / protective clothing.

If on skin: Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Other hazards Use only for intended scope of application
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

· Dangerous components:		
CAS: 6606-59-3	1,6-hexanediylbismethacrylate	5-10%
	🚸 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
CAS: 1565-94-2		2.5-5%
	🚸 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
CAS: 109-16-0	Triethylene glycol dimethacrylate	≤ 2.5%
	🚸 Skin Sens. 1, H317	
CAS: 72869-86-4	Urethanedimethacrylate	≤ 2.5%
	🚸 Skin Sens. 1B, H317	

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4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Seek medical treatment in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

· PAC-1:	• PAC-1:				
CAS: 109-16-0	Triethylene glycol dimethacrylate	33 mg/m ³			
CAS: 72869-86-4	Urethanedimethacrylate	120 mg/m ³			
· PAC-2:	· PAC-2:				
CAS: 109-16-0	Triethylene glycol dimethacrylate	360 mg/m ³			
CAS: 72869-86-4	Urethanedimethacrylate	1,300 mg/m ³			
· PAC-3:					
CAS: 109-16-0	Triethylene glycol dimethacrylate	2,100 mg/m ³			
CAS: 72869-86-4	Urethanedimethacrylate	7,900 mg/m ³			

7 Handling and storage

· Handling:

- · Precautions for safe handling
- For dental use only.

No special precautions are necessary if used correctly.

- Observe the instructions for use.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.

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Trade name: Grandio Flow

- · Information about storage in one common storage facility: Not required.
- \cdot Further information about storage conditions: See storage instructions on package
- \cdot Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- · Components 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 that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Eye protection: Safety glasses

9 Physical and chemical properties

· General Information		
Appearance:		
Form:	Viscous	
Color:	According to product specification	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	

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Trade name: Grandio Flow

		(Contd. of page 3	
Solubility in / Miscibility with	ł		
Water:	Not miscible or difficult to mix.		
· Partition coefficient (n-octanol/water): Not determined.			
Viscosity:			
Dynamic:	Not determined.		
Kinematic:	Not determined.		
Other information	No further relevant information available.		

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin:

Testing according to ISO 10993-1/10993-10 showed no skin irritation for this product when fully cured • *on the eye:* No irritating effect.

- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
CAS: 7631-86-9	silicon dioxide, chemically prepared	3
CAS: 128-37-0	Butylated hydroxytoluene	3
· NTP (National Toxicology Program)		
None of the ingredients is listed.		
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.

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Safety Data Sheet acc. to OSHA HCS

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Trade name: Grandio Flow

- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow product to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

X 737 37 J		
· UN-Number	17.:1	
· DOT, ADR, ADN, IMDG, IATA	Void	
• UN proper shipping name	-	
· DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)	-	
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	
· Packing group	-	
· DOT, ADR, IMDG, IATA	Void	
· Environmental hazards:		
• Marine pollutant:	No	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Annex II of		
MARPOL73/78 and the IBC Code	Not applicable.	
· UN ''Model Regulation'':	Void	

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

One or more substances contained in this material are not listed on the TSCA Inventory. Contact VOCO for more information.

· Hazardous Air Pollutants

None of the ingredients is listed.

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Reviewed on 08/19/2021

Trade name: Grandio Flow

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· Proposition 65	(Conta. of page 3)
· Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients are listed	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed	
· Chemicals known to cause developmental toxicity:	
None of the ingredients are listed	
· Cancerogenity categories	
· EPA (Environmental Protection Agency)	
None of the ingredients are listed	
· TLV (Threshold Limit Value established by ACGIH)	
Contact VOCO for more information.	
·NIOSH-Ca (National Institute for Occupational Safety and Health)	

None of the ingredients are listed

16 Other information

The information contained herein is based on our present knowledge and is believed to be correct at the date issued. The information is subject to change without notice. However, all information, statements, recommendations or suggestions shall not constitute any guarantee, representation or warranty, expressed or implied.

Final determination whether the product is fit and suitable for a particular purpose and the user's method of use or application is the sole responsibility of the user.

- · Department issuing SDS: Scientific department
- · Contact: Tel.: +49 (0)4721-719-0
- · Date of preparation / last revision 08/19/2021 / 5
- Abbreviations and acronyms:

Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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