

1 Identification

- **Product identifier**
- **Trade name:** *Admira 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

- **Classification of the substance or mixture**



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

- **Additional information:**
*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).*

- **Label elements**

- **Hazard pictograms** *GHS07*

- **Signal word** *Warning*

- **Hazard-determining components of labeling:**

- *BIS-GMA*

- *Triethylene glycol dimethacrylate*

- **Hazard statements**

- *May cause an allergic skin reaction.*

- **Precautionary statements**

- *Wear protective gloves / eye protection.*

- *Wear protective clothing.*

- *If skin irritation occurs: Get medical advice/attention.*

- *IF ON SKIN: Wash with plenty of soap and water.*

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

- **Other hazards**

- **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:**

	<i>Ormocer</i> <i>Skin Irrit. 2, H315; Eye Irrit. 2A, H319</i>	<i>10-25%</i>
<i>6606-59-3</i>	<i>HEDMA</i> <i>Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335</i>	<i>10-25%</i>
<i>1565-94-2</i>	<i>BIS-GMA</i> <i>Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317</i>	<i>5-10%</i>
<i>72869-86-4</i>	<i>Urethanedimethacrylate</i>	<i>5-10%</i>

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109-16-0	Triethylene glycol dimethacrylate Skin Sens. 1, H317	≤ 2,5%
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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.
- **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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** For dental use only.
- **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:** See storage instructions on package
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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.

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- **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

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Pasty
Color:	According to product specification
Odor:	Characteristic
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
- **Flash point:** Not applicable.
- **Auto 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.
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- **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.

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- **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:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
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)
None of the ingredients is listed
· 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.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **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:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void

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· <i>UN proper shipping name</i> · <i>DOT, ADR, ADN, IMDG, IATA</i>	Void
· <i>Transport hazard class(es)</i> · <i>DOT, ADR, ADN, IMDG, IATA</i> · <i>Class</i>	Void
· <i>Packing group</i> · <i>DOT, ADR, IMDG, IATA</i>	Void
· <i>Environmental hazards:</i> · <i>Marine pollutant:</i>	No
· <i>Special precautions for user</i>	Not applicable.
· <i>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</i>	Not applicable.
· <i>UN "Model Regulation":</i>	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):*
6606-59-3 | HEDMA

· *Proposition 65*

· *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

· *Carcinogenicity 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

· *GHS label elements*

The product is classified and labeled according to the Globally Harmonized System (GHS).

· *Hazard pictograms GHS07*

· *Signal word Warning*

· *Hazard statements*

May cause an allergic skin reaction.

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- **Precautionary statements**
- Wear protective gloves / eye protection.*
- Wear protective clothing.*
- If skin irritation occurs: Get medical advice/attention.*
- IF ON SKIN: Wash with plenty of soap and water.*
- Dispose of contents/container in accordance with local/regional/national/international regulations.*

16 Other information

- **Department issuing SDS:** *Scientific department*
- **Contact:** *Tel.: +49 (0)4721-719-0*
- **Date of preparation / last revision** *02/23/2016 / 5*
- **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*
 - DOT: US Department of Transportation*
 - IATA: International Air Transport Association*
 - ACGIH: American Conference of Governmental Industrial Hygienists*
 - 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)*
 - PBT: Persistent, Bioaccumulative and Toxic*
 - vPvB: very Persistent and very Bioaccumulative*
 - NIOSH: National Institute for Occupational Safety*
 - OSHA: Occupational Safety & Health*
 - TLV: Threshold Limit Value*
 - PEL: Permissible Exposure Limit*
 - REL: Recommended Exposure Limit*
 - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*
 - Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A*
 - Skin Sens. 1: Sensitisation - Skin, Hazard Category 1*
 - STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*
- *** Data compared to the previous version altered.**

US