Printing date 05.12.2022 Version: 3 (replaces version 2) Revision: 05.12.2022

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

· 1.1 Product identifier

· Trade name: dialog Vario Flow

· Article number: 643378-643393, 643397

· 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 crown and bridge facing material
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Schütz Dental GmbH, Dieselstrasse 5-6, D-61191 Rosbach v.d.H. (Germany)

Tel.: +49 (0)6003/814-0 Fax: +49 (0)6003/814-906 www.schuetz-dental.de; e-mail: info@schuetz-dental.de

- · Further information obtainable from: Tel.: +49 (0)6003/814-630
- · 1.4 Emergency telephone number:
- +49 (0) 6003 8140 Schütz Dental (8:00 17:00 Uhr) 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 2 H411 Toxic 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 GB CLP regulation.

· Hazard pictograms





GHS07

GHS09

- · Signal word Warning
- · Hazard-determining components of labelling:

di-urethane dimethacrylate

tetramethylene dimethacrylate

· Hazard statements

H317 May cause an allergic skin reaction.

H411 Toxic 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.

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

GB

Printing date 05.12.2022 Version: 3 (replaces version 2) Revision: 05.12.2022

Trade name: dialog Vario Flow

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description:

Preparation of methacryl acid ester.

Urethandimethacrylate

1,4-Butandioldimethacrylate

· Dangerous components:			
CAS: 41137-60-4	di-urethane dimethacrylate	25-50%	
	🕸 Aquatic Chronic 2, H411; 🕠 Skin Sens. 1B, H317		
	tetramethylene dimethacrylate	10-25%	
	💠 Skin Sens. 1B, H317		

[·] Additional information 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

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

· 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.

Seek medical treatment.

- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 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

Foam

Fire-extinguishing powder

Water haze

Carbon dioxide

- · For safety reasons unsuitable extinguishing agents Water with full jet.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 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 item 13.

Ensure adequate ventilation.

· 6.4 Reference to other sections

No dangerous substances are released.

(Contd. on page 3)

Printing date 05.12.2022 Version: 3 (replaces version 2) Revision: 05.12.2022

Trade name: dialog Vario Flow

(Contd. of page 2)

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep receptacles tightly sealed.

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.
- · Storage class Not determined
- · 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 item 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 required.
- · Hand protection Protective gloves.
- · Material of gloves

Butvl rubber, BR

Nitrile rubber, NBR

· 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 properties

- · 9.1 Information on basic physical and chemical properties
- · General Information

· Physical state

· Colour: Different according to colouring

• Odour: Weak, characteristic
• Odour threshold: Not determined.

(Contd. on page 4)

Printing date 05.12.2022 Version: 3 (replaces version 2) Revision: 05.12.2022

Trade name: dialog Vario Flow

(Contd. of page 3) Melting point/freezing point: undetermined · Boiling point or initial boiling point and boiling range 251 °C · Flammability Not applicable. · Lower and upper explosion limit Not determined. · Upper: Not determined. 113 °C · Flash point: >370 °C · Ignition temperature: · Decomposition temperature: Not determined. $\cdot pH$ Mixture is non-soluble (in water). · 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: Not determined. Density and/or relative density Density: Not determined · Relative density Not determined. · Vapour density Not determined. 9.2 Other information · Appearance: · Form: Viscous · Important information on protection of health and environment, and on safety. · Auto-ignition temperature: Product is not selfigniting. Product does not present an explosion hazard. · Explosive properties: · Solvent content: 0.0% Organic solvents: · Change in condition Not determined. · Evaporation rate · Information with regard to physical hazard classes Void · Explosives · Flammable gases Void Void · Aerosols Void · Oxidising gases Void · Gases under pressure · Flammable liquids Void Void · Flammable solids Void · Self-reactive substances and mixtures · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void · Corrosive to metals Void

Void

SECTION 10: Stability and reactivity

· Desensitised explosives

· 10.1 Reactivity No further relevant information available.

(Contd. on page 5)

(Contd. of page 4)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 05.12.2022 Version: 3 (replaces version 2) Revision: 05.12.2022

Trade name: dialog Vario Flow

· 10.2 Chemical stability

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions

Photoreactive

Danger of 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
- LD/LC50 values relevant for classification:

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

- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- 11.2 Information on other hazards
- · Endocrine disrupting properties

128-37-0 Butylated hydroxytoluene

List II

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.
- · 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
- · 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.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must be specially treated adhering to official regulations.

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

- · Uncleaned packaging:
- · Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· Recommended cleansing agents: Alcohol

CE

Printing date 05.12.2022 Version: 3 (replaces version 2) Revision: 05.12.2022

Trade name: dialog Vario Flow

(Contd. of page 5)

SECTION 14: Transport information	
14.1 UN number or ID number ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name ADR	3082 ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (di-urethan
· IMDG	dimethacrylate) ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (di-urethane dimethacrylate), MARIN POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (di-urethane dimethacrylate)
14.3 Transport hazard class(es)	
ADR	
Class Label	9 (M6) Miscellaneous dangerous substances and article 9
IMDG, IATA	
Class Label	9 Miscellaneous dangerous substances and articles. 9
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an articles.
Hazard identification number (Kemler code):	90
EMS Number:	F-A,S-F
Stowage Category	A
14.7 Maritime transport in bulk according to IM instruments	T O Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
	manning for outer puchaging. 1000 mi
Transport category	3

Printing date 05.12.2022 Version: 3 (replaces version 2) Revision: 05.12.2022

Trade name: dialog Vario Flow

(Contd. of page 6)

· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DI-URETHANE DIMETHACRYLATE), 9, III

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.
- · Seveso category E2 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations
- · Technical instructions (air):

Class	Share in %
III	10-25

- · 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.

· Relevant phrases

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

- · Department issuing SDS: Schütz Dental GmbH
- · Contact: Dr. U. Krichbaum
- · Abbreviations and acronyms:

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

* Data compared to the previous version altered.