

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 26.04.2017

Version number 1705

Revision: 26.04.2017

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

#### 1.1 Product identifier

Trade name: **DentoGlide**

Article number: 66 02 887

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

Application of the substance / the mixture Milling additive  
No further relevant information available.

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Lieferant/Supplier:  
FONA Dental s.r.o.  
Stefanikova 7, 811 06,  
Bratislava, Slovak Republic  
Phone: +421 2 322 32455  
E-mail: safety@fonadental.com  
http://www.fonadental.com

Manufacturer Graichen Produktions- und Vertriebs- GmbH  
Darmstädter Str. 127  
64625 Bensheim  
Germany

Further information obtainable from: Environment protection department

1.4 Emergency telephone number: Advice centre for poisoning university Mainz phone +49(0)6131/19240  
or poison information: +49(0)700/GIFTINFO

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

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

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS07

Signal word

Warning

Hazard-determining components of labelling:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2-isothiazol-3-one [EC no. 220-239-6] (3:1)

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P281

Use personal protective equipment as required.

P262

Do not get in eyes, on skin, or on clothing.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P315

Get immediate medical advice/attention.

P363

Wash contaminated clothing before reuse.

P301+P330+P331

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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 Chemical characterisation: Mixtures watery solution of salts, stabilizers and preservatives

CAS: 7732-18-5 EINECS: 231-791-2	Wasser (water, Aqua)	2.5-10%
Dangerous components:		
CAS: 56-81-5 EINECS: 200-289-5	glycerol substance with a Community workplace exposure limit	50-100%

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CAS: 52-51-7 EINECS: 200-143-0	bronopol (INN) ☠ Eye Dam. 1, H318; ☠ Aquatic Acute 1, H400; ☠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335	< 2.5%
CAS: 55965-84-9	mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) ☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ☠ Skin Corr. 1B, H314; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Skin Sens. 1, H317	< 2.5%

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: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
Position and transport stably in side position.
- 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.

#### 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: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing agents: Water with full jet

#### 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.  
Sulphur dioxide (SO<sub>2</sub>)  
Hydrogen chloride (HCl)  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)

#### 5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

#### 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).

Ensure adequate ventilation.

#### 6.4 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.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

No special precautions are necessary if used correctly.

- 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:

Store only in the original receptacle.

- Information about storage in one common storage facility:

Store away from foodstuffs.

- Further information about storage conditions:

Store receptacle in a well ventilated area.

#### 7.3 Specific end use(s)

No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities:

No further data; see item 7.

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**8.1 Control parameters**

· Ingredients with limit values that require monitoring at the workplace:

**56-81-5 glycerol**WEL | Long-term value: 10 mg/m<sup>3</sup>

· DNELs

**56-81-5 glycerol**Inhalative | Long-term - local effects | 56 mg/m<sup>3</sup> (worker (Arbeitnehmer))

· PNECs

**56-81-5 glycerol**

PNEC Soil (Boden)	0.141 mg/kg (-)
PNEC Fresh water sediment (Süßwassersediment)	3.3 mg/kg (-)
PNEC freshwater (Süßwasser)	0.885 mg/l (-)
PNEC marine water sediment	0.33 mg/kg (-)
PNEC Aquatic compartment-marine water (Meerwasser)	0.0885 mg/l (-)
PNEC mikrobiological activity in waste water	1000 mg/l (-)

· CAS No. Designation of material % Type Value Unit

· Additional Occupational Exposure Limit  
Values for possible hazards during  
processing:

Country	Components	Categorie	mg/m <sup>3</sup>
Germany	2-methyl-4-isothiazolin-3-on	MAK	0,05
	5-chloro-2-methyl-4-isothiazolin-3-on	MAK	0,05

· Additional information:

The lists valid during the making were used as basis.

**8.2 Exposure controls**

· Personal protective equipment:  
· General protective and hygienic  
measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

· Respiratory protection:

Not required.

· Protection of hands:

Protective gloves  
The glove material has to be impermeable and resistant to the product/ the  
substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the  
product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of  
diffusion and the degradation  
Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.7$  mm  
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.

· Penetration time of glove material

Value for the permeation: Level  $\leq 0,7$  mm 480min (8h) EN374  
The determined penetration times according to EN 374 part III are not performed  
under practical conditions. Therefore a maximum wearing time, which corresponds  
to 50% of the penetration time, is recommended.  
The exact break through time has to be found out by the manufacturer of the  
protective gloves and has to be observed.

· Not suitable are gloves made of the  
following materials:

Natural rubber, NR  
PVA gloves

· Eye protection:

Tightly sealed goggles

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

· General Information

· Appearance:

Form: Fluid

Colour: Colourless

· Odour: Characteristic

· Odour threshold: Not determined.

· pH-value at 20 °C:  $> 4$

· Change in condition

Initial boiling point and boiling range: 100 °C

· Flash point:  $> 100$  °C

· Flammability (solid, gas): Not applicable.

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- Ignition temperature: 400 °C
- Decomposition temperature: Not determined.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Not determined.
- Explosion limits:
  - Lower: 0.9 Vol %
  - Upper: Not determined.
- Vapour pressure at 20 °C: 0.1 hPa
- Density at 20 °C: 1.2324 g/cm<sup>3</sup>
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
  - Dynamic: Not determined.
- **9.2 Other information**: No further relevant information available.

### 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**:
  - Forms explosive gas mixture with air.
  - Reacts with strong oxidising agents.
- **10.4 Conditions to avoid**: No further relevant information available.
- **10.5 Incompatible materials**: No further relevant information available.
- **10.6 Hazardous decomposition products**:
  - Hydrogen chloride (HCl)
  - Nitrogen oxides
  - Sulphur dioxide

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**:
  - Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

#### 56-81-5 glycerol

Oral	LD50	12600 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)

#### 52-51-7 bronopol (INN)

Oral	LD50	254 mg/kg (rat)
Dermal	LD50	1600 mg/kg (rat)

#### 55965-84-9 mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1)

Oral	LD50	457 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat) 660 mg/kg (rabbit)

- Primary irritant effect: Based on available data, the classification criteria are not met.
- 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.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- 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.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**

· Aquatic toxicity:

#### 56-81-5 glycerol

LC50/24h	>5000 mg/l (Carassius auratus)
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IC50 (16h)	>10000 mg/l (scenedesmus quadricauda)	
<b>52-51-7 bronopol (INN)</b>		
EC50/48h	1.4 mg/l (daphnia magna/gr. Wasserfloh)	
LC50/96h	35.7 mg/l (Lepomis macrochirus)	
	41.2 mg/l (Oncorhynchus mykiss)	
<b>55965-84-9 mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1)</b>		
EC50/48h	0.16 mg/l (daphnia magna/gr. Wasserfloh)	
EC50/72h	0.018 mg/l (Desmodesmus subspicatus/Grünalge)	
EC50(16)	5.7 mg/l (Pseudomonas putida)	
LC50/96h	0.19 mg/l (Oncorhynchus mykiss)	

**12.2 Persistence and degradability****56-81-5 glycerol**

CSB (chem. Sauerstoffbedarf)	95 % (-)
theor. O2 consumption (theor. Sauerstoffverbrauch)	1.217 g/g (-)
Biodegradability 14d	63 % (-) (biodegradability (biol. Abbaubarkeit))

**12.3 Bioaccumulative potential****56-81-5 glycerol**

Log Pow | ≤4 (-)

**12.4 Mobility in soil**

No further relevant information available.

- 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.

**12.5 Results of PBT and vPvB assessment**

- PBT: Not applicable.
- vPvB: Not applicable.

**12.6 Other adverse effects**

No further relevant information available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

- Recommendation: Must be specially treated adhering to official regulations.

- Uncleaned packaging:

- Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

**SECTION 14: Transport information****14.1 UN-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: Void
- 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 Transport in bulk according to Annex II of Marpol and the IBC Code**

- Transport/Additional information: 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.
- REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

- 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.

- Department issuing SDS: Environment protection department.
- 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

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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)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

. \* Data compared to the previous version altered.

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