

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

Printing date 01.10.2021

Vers.: 8 (replaces version 7)

Revision: 30.09.2021

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

#### · 1.1 Product identifier

· Trade name: **Chemichl AG – Dental Liquid, Stain and Glaze Liquid**

· CAS Number:

107-88-0

· EC number:

203-529-7

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

No further relevant information available.

· Life cycle stages PW Widespread use by professional workers

· Sector of Use SU21 Consumer uses: Private households / general public / consumers

· Product category PC0 Other

· Process category PROC0 Other

· Application of the substance / the mixture Intermediate for dental ceramic restoration

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

· Manufacturer/Supplier:

Chemichl AG

Landstrasse 114

FL-9490 Vaduz - Liechtenstein

Tel.: +423 237 76 20

Fax: +423 237 76 21

Mail: [customer-service@chemichl.com](mailto:customer-service@chemichl.com)

Web: <http://www.chemichl.com>

· Further information obtainable from:

Scientific Service:

Mo - Fr. 8:00 - 15:00

[scientific-service@chemichl.com](mailto:scientific-service@chemichl.com)

· 1.4 Emergency telephone number:

Tox info Suisse Emergency number: 145

USA - National Poisons Emergency number 1 800 222 1222

poison control center Berlin: +49 30 1 92 40

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

The substance is not classified, according to the CLP regulation.

#### · 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008 Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

(Contd. on page 2)

EU

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Trade name: **Chemichl AG – Dental Liquid, Gaze Liquid HV**


(Contd. of page 1)

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

### SECTION 3: Composition/information on ingredients

- **3.1 Substances**
- **CAS No. Description**  
CAS: 107-88-0 1,3-Butanediol
- **Identification number(s)**
- **EC number:** 203-529-7
- **Description:** Mixture of substances listed below with nonhazardous additions.

### 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:** Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water.  
If symptoms persist consult doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **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:** 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:** No special measures required.

EU  
(Contd. on page 3)

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

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Vers.: 8 (replaces version 7)

Revision: 30.09.2021

**Trade name: Chemichl AG – Dental Liquid, Gaze Liquid HV**

(Contd. of page 2)

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Avoid formation of dust.
- **6.2 Environmental precautions:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Dilute with plenty of water.  
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).
- **6.4 Reference to other sections**  
No dangerous substances are released.  
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**  
Wash hands before breaks and at the end of work.  
Provide suction extractors if dust is formed.  
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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** 10
- **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:** Not required.
- **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.
- **Hand protection**  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 4)

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

Printing date 01.10.2021

Vers.: 8 (replaces version 7)

Revision: 30.09.2021

**Trade name: Chemichl AG – Dental Liquid, Gaze Liquid HV**

(Contd. of page 3)

**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.

**Penetration time of glove material** Not applicable.**Eye/face protection**

Goggles recommended during refilling

### SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information****Physical state**

Fluid

**Colour:**

Colorless, yellowness

**Odour:**

Odourless

**Odour threshold:**

Not determined.

**Melting point/freezing point:**

-50°C

**Boiling point or initial boiling point and boiling range**

207°C

**Flammability**

Not applicable.

**Lower and upper explosion limit****Lower:**

Not determined.

**Upper:**

Not determined.

**Flash point:**

109°C

**Auto-ignition temperature:**

Not determined.

**Decomposition temperature:**

Not determined.

**pH**

Not determined.

**Viscosity:****Kinematic viscosity**

Not determined.

**Dynamic:**

Not determined.

**Solubility****water:**

Fully miscible.

**Partition coefficient n-octanol/water (log value)**

Not determined.

**Vapour pressure:**

Not determined.

**Density and/or relative density****Density at 20°C:**1 g/cm<sup>3</sup>**Relative density**

Not determined.

**Bulk density:**

Not determined.

**Vapour density**

Not determined.

**9.2 Other information****Appearance:****Form:**

Fluid

**Important information on protection of health and environment, and on safety.****Ignition temperature:**

375°C (CAS: 107-88-0 1,3-Butanediol)

**Explosive properties:**

Product does not present an explosion hazard.

**Organic solvents:**

100.0 %

(Contd. on page 5)

EU

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

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Vers.: 8 (replaces version 7)

Revision: 30.09.2021

Trade name: **Chemichl AG – Dental Liquid, Gaze Liquid HV**

(Contd. of page 4)

- **Change in condition**
- **Softening point/range**
- **Oxidising properties** no oxidizing properties
- **Evaporation rate** Not determined.

· **Information with regard to physical hazard classes**

- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **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 flammable 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** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **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:**

**CAS: 107-88-0 1,3-Butanediol**

Oral	LD50	18610 mg/kg (rat)
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- **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** Based on available data, the classification criteria are not met.

(Contd. on page 6)

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

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**Trade name: Chemichl AG – Dental Liquid, Gaze Liquid HV**

(Contd. of page 5)

- **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.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

Substance is not listed.

### 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**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Packaging may be reused or recycled after cleaning.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

EU

(Contd. on page 7)

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(Contd. of page 6)

### SECTION 14: Transport information

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

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
Medical Device Directive (Council Directive 93/42/EEC of 14 June 1993 [1] concerning medical device
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

- **Department issuing SDS:** Scientific Service
- **Contact:** Email: scientific-service@chemichl.com
- **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)  
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  
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