

Material Safety Data Sheet

According to 91/155/EG



Printing date: 04/08/2019

Trade name: **Zubler® Investment Liquid**

Article number: 898/204

1. Identification of substance/mixture and of the company/undertaking

- **Product identifier**

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- **Relevant identified uses of the substance or mixture and uses advised against**

- **Application of the substance / the preparation**

Auxiliary for dental technology

Processing aid

- **Supplier/ Manufacturer:**

Zubler USA LLC

805 Marathon Pkwy. Ste 130

Lawrenceville, GA 30046

(770) 921-2131

- **Information:**

Business Unit Investment / Technical Support

Zubler USA LLC (770) 921-2131 / (972) 600-9187

- **Emergency information:**

Zubler USA LLC (770) 921-2131

2. Hazards identification:

- **Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008**

The product is not to be classified according to the CLP regulation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void

- **Information concerning particular hazards for human and environment:** Void

- **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

- **Label elements**

- **Labelling according to EU guidelines:**

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

Observe the normal safety regulations when handling chemicals

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3. Composition/information on ingredients

Chemical characterization: Mixtures

Description: Solution of colloidal silicic acid.

Dangerous components: Void

4. First aid measures

- **Description of first aid measures**

- **General information:** No special measures required.

- **After inhalation :** Supply fresh air. consult doctor in case of symptoms.

- **After skin contact :** Wash with water and soap. The product is not skin irritating.

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- **After eye contact :** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing :** Rinse out mouth and then drink plenty of water. In case of persistent symptoms, consult doctor.

5. Fire fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
CO₂, extinguishing powder or water jet. Fight larger fires with foam.
- **Special hazards arising from the substance or mixture** None
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6. Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
- **Environmental precautions:**
Do not allow concentrated solutions to enter drainage system, surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
- **Reference to other sections** No dangerous materials are released.

7. Handling and storage

- **Handling**
- **Precautions for safe handling**
No special precautions necessary if used correctly.
Keep containers tightly sealed.
- **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 containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Protect from frost.
Store in cool, dry conditions in well sealed containers.

8. Exposure controls and personal protection

- **Additional information about design of technical systems:**
No further data; see item 7.
- **Control parameters**
- **Components with critical values that require monitoring at the workplace:**
- **Additional information:**
The lists that were valid during compilation were used as a basis.
- **Exposure controls**
- **Personal protective equipment**

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- **General protective and hygienic measures**
The usual precautionary measures should be adhered to in handling the chemicals.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**
Protective gloves:
In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374).
Layer thickness of gloves at least: 0.4 mm
In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374).
Layer thickness of gloves at least: 0.7 mm
- **Material of gloves**
Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Natural rubber, NR
Chloroprene rubber, CR
Neoprene gloves
- **Penetration time of glove material**
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:** Leather gloves
- **Eye protection:** Safety glasses (DIN 58211, EN 166)
- **Body protection:** Light weight protective clothing

9. Physical and chemical properties:

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

Form:	Fluid
Colour:	White
- **Smell:** Odourless
- **pH-value at 20°C:** 9 - 10 (100 %)
- **Change in condition**

Boiling point/Boiling range:	> 100°C
Flash point:	Not applicable
Ignition temperature:	Not applicable
Decomposition temperature:	Not determined
Danger of explosion:	Product is not explosive.
- **Critical values for explosion:**

Oxidizing properties	None
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- **Density at 20°C:** 1.09 - 1.35 g/cm³
- **Solubility in / Miscibility with Water:** Fully miscible
- **Viscosity:**

dynamic at 20°C:	< 20 mPas
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10. Stability and reactivity

- **Reactivity**
- **Chemical stability**

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- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Hazardous decomposition products:** No dangerous decomposition products known

11. Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
- | Components | Type | Value | Species |
|-------------------|---------------|--------------|---------|
| Product (analogy) | LD50:
oral | > 2000 mg/kg | rat |
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Moderate irritation
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
In our experience and according to the information provided to us, the product does not have any harmful effects when used and handled according to specification. The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.

12. Ecological information:

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Type of test Effective concentration Method Assessment**
Acute toxicity (fish): LC0: 5000 mg/l (Brachydanio rerio)
- **Persistence and degradability**
- **Other information:**
Inorganic salts are basically not biodegradable.
Easy elimination possible by flocculation or adsorption by sludge.
- **Ecotoxicological effects:**
- **Behaviour in sewage processing plants:**
- **Type of test Effective concentration Method Assessment**
Sludge bacteria: EC50: > 10000 mg/l
- **Other information:**
No COD, no BOD, no AOX
No VOC according to EC-directive 1999/13/EC
- **Additional ecological information:**
- **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:** None
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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13. Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Smaller quantities can be disposed with household garbage.
Can be deposited with household garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
- **European waste catalogue**
06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning.
Packaging that cannot be cleaned are to be disposed of in the same manner as the product.
Dispose of packaging according to regulations on the disposal of packaging.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14. Transport information

- **Special precautions for user:** Not applicable.
- **Transport/Additional information:**
Not dangerous according to the above regulations.

15. Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Designation according to EC guidelines:**
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).
Observe the normal safety regulations when handling chemicals
- **National regulations**
- **Decree to be applied in case of technical fault:**
Major accidents hazards regulation, annex: not applicable (German regulation)
- **Water hazard class:**
No water hazard risk according to appendix 1 of the german regulation VwVwS (27.07.2005).
- **Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

16. Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:**
Product Safety and Regulatory Affairs
- **Contact:**
Benjamin Oechsle
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- **Abbreviations and acronyms:**
GHS: Globally Harmonized 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