

Material Safety Data Sheet

According to 91/155/EG



Printing date: 04/08/2019

Article number: 20/0235, 20/0238, 20/0237

Trade name: **Zubler® Disposable Plungers (012, 13, 16mm)**

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

• Product identifier

Trade name: **Zubler® Disposable Plungers (0 12, 13, 16mm)**

Article number: 20/0235, 20/0238, 20/0237

• 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

Phone (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

- **Silica, Crystalline: (quartz/cristobalite):** Repeated inhalation of silica crystalline dust particles can cause serious chronic lung damage, known as **silicosis**. Silicosis involves inflammation and scarring of the lung tissue; pulmonary fibrosis. Lung cancer is contributed to chronic exposure to silica (crystalline) dust/fumes.
- **Silicon, Amorphous:** Inhalation of silicon dust/fumes may cause irritation to the upper respiratory system; symptoms include: cough/irritation. Contact with skin and/or eyes may cause dermatitis/irritation.
- **Oxides:** Inhalation of certain elements and their oxides contained in this product may be hazardous. Dust/fumes can cause irritation to the eyes, nasal passage, GI tract, skin, and respiratory system. Other conditions that may result from exposures exceeding TLVs/PELs include:
Acute Flu-like fever: Symptoms as normal fever
- **Conjunctivitis:** Any inflammatory condition of the membrane that lines the eyelid and covers the exposed surface of the sclera (the white of the eye)
- **Dermatitis:** Inflammation of the skin; rash
- **Pneumoconiosis:** Is fibrosis and scarring of the lungs due to the chronic (long-term) occupational inhalation of dusts such as coal, silica, asbestos, or various mineral compounds. Early symptoms include chest tightness and shortness of breath. Advanced symptoms include serious breathing impairment, chronic bronchitis, and emphysema.
- **Pneumonitis:** Inflammation of the lung tissue, characterized by coughing and difficulty breathing
- **Skin erythema:** Redness of the skin that is produced by congestion of the capillaries.

Hazardous Decomposition: This material, when mixed and heated in a furnace, in normal use, will emit ammonia gas. Proper ventilation of furnace is required

3. Composition / information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Designation:** Void
- **Identification number(s):**
- **EINECS Number:** Void
- **Chemical characterization: Mixtures**

(Contd. on page 2)

Material Safety Data Sheet

According to 91/155/EG



Printing date: 04/08/2019

Article number: 20/0235, 20/0238, 20/0237

Trade name: **Zubler® Disposable Plungers (0 12, 13, 16mm)**

(Contd. of page 1)

- **Description:**
Blend of quartz and cristobalite powder, ammonium phosphate and magnesium oxide.
- **Dangerous components:**

CAS: 14808-60-7	Quartz (SiO ₂)	50-100%
EINECS: 238-878-4	Xn R48/20 GHS08 STOT RE 2, H373	
CAS: 14464-46-1	cristobalite	10-25%
EINECS: 238-455-4	Xn R48/20 GHS08 STOT RE 2, H373	
CAS: 1309-48-4	magnesium oxide	2.5-10%
EINECS: 215-171-9		

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 :** Generally the product does not irritate the skin. Wash with water and soap. The product is not skin irritating.
- **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

- **Flash Point:** N/A
- **Explosive Limits:** N/A
- **Extinguishing media**
- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
CO₂, extinguishing powder or water jet. Fight larger fires with foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards arising from the substance or mixture**
Fire can cause release of :
Nitrogen oxides (NO_x)
Ammonia (NH₃)
- **Advice for firefighters**
Protective equipment: No special measures required

6. Accidental release measures

- **Person-related safety precautions:**
Avoid causing dust.
Use breathing protection against the effects of fumes/dust/aerosol.
Wear protective clothing.
- **Environmental precautions: No special measures required.**
- **Methods and material for containment and cleaning up:**
Collect mechanically.
Dispose of contaminated material as waste according to item 13.
- **Reference to other sections**
See Section 8 for information on personal protection equipment.

Material Safety Data Sheet

According to 91/155/EG



Printing date: 04/08/2019

Article number: 20/0235, 20/0238, 20/0237

Trade name: **Zubler® Disposable Plungers (0 12, 13, 16mm)**

7. Handling and storage

- **Handling:**
- **Information for safe handling:** Prevent formation of dust.
- **Information about fire - and explosion protection:** No special measures required.
- **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:** Store in dry conditions.

8. Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item?.
- **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.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:** Not required.
- **Material of gloves:** Void
- **Penetration time of glove material:** Void
- **Eye protection:** Not required.
- **Body protection:** Void

9. Physical and chemical properties:

Information on basic physical and chemical properties

- **General Information**
 - **Form:** Particulate
 - **Colour:** Light grey
 - **Odour:** Odourless
- **Change in condition**
 - **Melting point/Melting range:** Undetermined
 - **Boiling point/Boiling range:** Undetermined
- **Flash point:** Not applicable.
- **Self-igniting:** Product is not self igniting
- **Danger of explosion:** Product does not present an explosion hazard
- **Density at 20° c:** 1.05 g/cm³
- **Solubility in / Miscibility with water:** Insoluble
- **Solvent content:**
 - **Organic solvents:** 0.0%

10. Stability and reactivity

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

Material Safety Data Sheet

According to 91/155/EG



Printing date: 04/08/2019

Article number: 20/0235, 20/0238, 20/0237

Trade name: **Zubler® Disposable Plungers (0 12, 13, 16mm)**

11. Toxicological information

Primary routes of exposure:

- **Inhalation:** Airborne exposure in excess of the constituent's listed values can occur upon opening of the package, mixing stone, and/or any activities that cause the material to become airborne i.e. abrasive cutting, grinding, crushing, or otherwise abrading the surface of this material in its' solid form, which generates finely divided particles. The potential for exposures may also occur during repair or maintenance activities on contaminated equipment such as: furnace rebuilding, maintenance or repair of air cleaning equipment, structural renovation, etc.
- **Ingestion:** There are no known cases of illness resulting from ingestion of this material. Ingestion can occur from hand, clothing, food, and drink contact with investment dust, fume or powder during hand to mouth activities such as eating, drinking, smoking, nail biting, etc. These products are not intended for internal consumption. As a standard hygiene practice, hands should be washed before eating or smoking.
- **Skin:** Skin contact with this material may cause, in some sensitive individuals, dermatitis/irritation, due to the response from silica. Skin abrasion may cause irritation.
- **Eyes:** Injury can result from particulate irritation or mechanical injury to the eyes by dust or particulate. Exposure may result from direct contact with airborne particulate (dust or powder) or contact to the eye of contaminated hands or clothing.

Acute toxicity:

Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. Ecological information:

- **This material is insoluble in water. Inorganic salts are not biodegradable. There is no information available on the ecological effects of this material**
- **Water hazard class according to EC guidelines:** Water hazard class 1(Self-assessment): generally not hazardous for water

13. Disposal considerations

Product:

- **Recommendation:** Smaller quantities can be disposed of with household waste

European waste catalogue:

- 06 00 00 Wastes from inorganic chemical processes
- 06 03 00 wastes from the MFSU of salts and their solutions and metallic oxides
- 06 03 16 metallic oxides other than those mentioned in 06 03 15

Uncleaned packaging:

Recommendation:

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

Material Safety Data Sheet

According to 91/155/EG



Printing date: 04/08/2019

Article number: 20/0235, 20/0238, 20/0237

Trade name: **Zubler® Disposable Plungers (0 12, 13, 16mm)**

14. Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:**
- **Maritime transport IMDG:**
- **IMDGClass: -**
- **Marine pollutant: No**
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:**

- **Transport/Additional information:**
Not dangerous according to the above regulations

15. Regulatory information

- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **Special labelling of certain preparations:**
Safety data sheet available for professional user on request.
- **OSHA Hazard Communication Standard, 29 CFR 1910.1200:** Components of these products are considered hazardous ingredients.
- **Waterhazard class:** Generally not hazardous for water.
- **Other Regulations, Limitations and Prohibitive Regulations:**
- **German UVV:** Protection against mineral dust which is harmful to health
- **California Proposition 65:** *Crystalline, silica* is known to the state of California to cause cancer

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
boechsle@zubler.de
- **Abbreviations and acronyms:**
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)