

**Material Safety Data Sheet  
According to 91/155 EEC**

Printing date 30.05.2005

Reviewed on 25.05.2005

### 1 Identification of substance

· **Product details**

· **Trade name:** Alginoplast

· **Application of the substance / the preparation** Dental impression material

· **Manufacturer/Supplier:**

Heraeus Kulzer GmbH  
Grüner Weg 11, D-63450 Hanau

Tel.: 0800 4372522

· **Informing department:**

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· **Emergency information:** Call +49 30 19240 (24 hours).

### 2 Composition/Data on components:

· **Chemical characterization**

· **Description:** -

· **Dangerous components:**

CAS: 14807-96-6 EINECS: 238-877-9	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )		5-10%
CAS: 16919-27-0 EINECS: 240-969-9	dipotassium hexafluorotitanate	Xn; R 22-37-41-43	0-5%
CAS: 1309-48-4 EINECS: 215-171-9	magnesium oxide		0-5%
CAS: 68855-54-9 EINECS: 272-489-0	Kieselguhr, soda ash flux-calcined		50-75%

· **Additional information** For the wording of the listed risk phrases refer to section 16.

### 3 Hazards identification

· **Hazard designation:**



Xi Irritant

· **Information pertaining to particular dangers for man and environment**

Product contains fine quartz powder. Longer inhalation may cause silicose.

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 43 May cause sensitisation by skin contact.

· **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.

### 4 First aid measures

- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Initiate vomiting and consult a doctor.

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### 5 Fire fighting measures

- **Suitable extinguishing agents** void
- **Special hazards caused by the material, its products of combustion or flue gases:**  
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Send for recovery or disposal in suitable containers.
- **Additional information:**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### 7 Handling and storage

- **Handling**
  - **Information for safe handling:**  
Prevent formation of dust.  
Provide suction extractors if dust is formed.
  - **Information about protection against explosions and fires:** No special measures required.
- **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:** None.

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**

#### 68855-54-9 Kieselguhr, soda ash flux-calcined

OES () Long-term value: 1.2 mg/m<sup>3</sup>  
respirable dust

#### 10101-41-4 Gips

OES () Long-term value: 10\* 4\*\* mg/m<sup>3</sup>  
\*total inhalable dust \*\*respirable dust

#### 14807-96-6 Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

OES () Long-term value: 1 mg/m<sup>3</sup>  
respirable dust

#### 8002-74-2 Paraffin waxes and Hydrocarbon waxes

OES () Short-term value: 6 mg/m<sup>3</sup>  
Long-term value: 2 mg/m<sup>3</sup>

#### 1309-48-4 magnesium oxide

OES () Long-term value: 10\* 4\*\* mg/m<sup>3</sup>  
\*total inhalable dust \*\*fume and respirable dust

- **Additional information:** The lists that were valid during the compilation were used as basis.

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- **Personal protective equipment**
  - **General protective and hygienic measures**  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.
  - **Breathing equipment:** Use a mask with particle filter in case of dust generation.
    - **Recommended filter device for short term use:**  
P2 (FFP 2 EN 149:2001) / P3 (FFP 3 EN 149:2001)
  - **Protection of hands:**  
If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    - **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**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
    - **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**  
PVC or PE gloves  
Natural rubber, NR
    - **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**  
PVC or PE gloves
  - **Eye protection:** not absolutely necessary
  - **Body protection:** Light weight protective clothing

### 9 Physical and chemical properties:

#### · General Information

- **Form:** Powder
- **Colour:** According to product specification
- **Smell:** Aromatic

#### · Change in condition

- **Melting point/Melting range:** Not determined
- **Boiling point/Boiling range:** Not determined

· **Flash point:** Not applicable

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Density** Not determined

· **Settled apparent density** 250-500 kg/m<sup>3</sup>

#### · Solubility in / Miscibility with

- **Water:** Insoluble

### 10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used and stored according to specifications.

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- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** None

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### 11 Toxicological information

- **Acute toxicity:**
  - **Primary irritant effect:**
    - **on the skin:** No irritant effect.
    - **on the eye:** No irritant effect.
  - **Sensitization:** Sensitization possible by skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Irritant

### 12 Ecological information:

- **General notes:**  
Water hazard class 1 (calculated according to VwVwS): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### 13 Disposal considerations

- **Product:**
  - **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

18 01 06 chemicals consisting of or containing dangerous substances

- **Uncleaned packagings:**
  - **Recommendation:**  
Disposal must be made according to official regulations.  
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

### 14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
  - **ADR/RID-GGVS/E Class:** -
- **Maritime transport IMDG/GGVSea:**
  - **IMDG/GGVSea Class:** -
  - **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
  - **ICAO/IATA Class:** -

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### 15 Regulatory information

- **Designation according to EC guidelines:**  
Observe the normal safety regulations when handling chemicals  
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- **Code letter and hazard designation of product:**  
Xi Irritant
- **Hazard-determining components of labelling:**  
dipotassium hexafluorotitanate
- **Risk phrases:**  
43 May cause sensitisation by skin contact.
- **Safety phrases:**  
22 Do not breathe dust.  
24 Avoid contact with skin.  
37 Wear suitable gloves.
- **National regulations**
  - **Water hazard class:**  
Water hazard class 1 (calculated according to VwVwS): slightly hazardous for water.

### 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.

- **Relevant R-phrases**
  - 22 Harmful if swallowed.
  - 37 Irritating to respiratory system.
  - 41 Risk of serious damage to eyes.
  - 43 May cause sensitisation by skin contact.
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