

## Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 05/30/2005

Reviewed on 05/25/2005

### 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

· **Information department:**

Dr. Barbara Bräu  
Tel.: +49 2133 51-8521 / Fax: +49 2133 51-5016  
e-mail: barbara.braeu@heraeus.com

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

### 2 Composition/Data on components:

· **Chemical characterization**

· **Description:** -

· **Dangerous components:**

14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )		5-10%
16919-27-0	dipotassium hexafluorotitanate	Xn; R 22-37-41-43	0-5%
8002-74-2	Paraffin waxes and Hydrocarbon waxes		0-5%

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

### 3 Hazards identification

· **Hazard description:**



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 sensitization by skin contact.

· **Classification system**

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

· **NFPA ratings for USA (scale 0-4)**



· **HMIS-Ratings (Scale 0-4)**



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Trade name: **Alginoplast**

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### 4 First aid measures

- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.
- **After swallowing** Induce vomiting and seek advice of physician.

### 5 Fire fighting measures

- **Suitable extinguishing agents** void
- **Special hazards caused by the material, its products of combustion or resulting 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 receptacles.
- **Additional information:**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 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 receptacles:** 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 limit values that require monitoring at the workplace:**

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

PEL ()	20 mppcf ppm containing < 1% quartz
REL ()	2* mg/m <sup>3</sup> *Respirable dust
TLV ()	2 R mg/m <sup>3</sup> (e)

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

REL ()	2 mg/m <sup>3</sup>
TLV ()	Short-term value: 2 ppm

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### 1309-48-4 magnesium oxide

PEL ()	15* mg/m <sup>3</sup> *Total particulate
TLV ()	10 l mg/m <sup>3</sup>

· **Additional information:** The lists that were valid during the creation were used as basis.

#### · Personal protective equipment

##### · General protective and hygienic measures

Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of 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

· <b>Form:</b>	Powder
· <b>Color:</b>	According to product specification
· <b>Odor:</b>	Aromatic

### · Change in condition

· **Melting point/Melting range:** undetermined

· **Boiling point/Boiling range:** undetermined

· **Flash point:** Not applicable

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined

· **Bulk density:** 250-500 kg/m<sup>3</sup>

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- **Solubility in / Miscibility with**
- **Water:** Insoluble

### 10 Stability and reactivity

- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** none

### 11 Toxicological information

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

### 12 Ecological information:

- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course 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.
- **Uncleaned packagings:**
  - **Recommendation:**  
Disposal must be made according to official regulations.  
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
- **DOT regulations:**
  - **Hazard class:** -
- **Land transport ADR/RID (cross-border)**
  - **ADR/RID class:** -
- **Maritime transport IMDG:**
  - **IMDG Class:** -
  - **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
  - **ICAO/IATA Class:** -

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### 15 Regulations

· **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act)**

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

9005-36-1 Kaliumalginat

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

16919-27-0 dipotassium hexafluorotitanate

8002-74-2 Paraffin waxes and Hydrocarbon waxes

1309-48-4 magnesium oxide

8008-79-5 Flavour

125-20-2 3,3-bis(4-hydroxy-5-isopropyl-o-tolyl)phthalide

77-09-8 phenolphthalein

· **Prop 65 - Chemicals known to cause cancer**

77-09-8 phenolphthalein

· **Prop 65 - Chemicals known to cause reproductive toxicity**

None of the ingredients is listed.

· **Carcinogeny categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

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

3

77-09-8 phenolphthalein

2B

· **NTP (National Toxicology Program)**

77-09-8 phenolphthalein

R

· **TLV (Threshold Limit Value established by ACGIH)**

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

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Markings according to EU guidelines:**

Observe the general safety regulations when handling chemicals

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· **Code letter and hazard designation of product:**

Xi Irritant

· **Hazard-determining components of labelling:**

dipotassium hexafluorotitanate

· **Risk phrases:**

43 May cause sensitization by skin contact.

· **Safety phrases:**

22 Do not breathe dust.

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24 Avoid contact with skin.  
37 Wear suitable gloves.

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**· National regulations****· Water hazard class: Water hazard class 1 (Self-assessment): 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 sensitization by skin contact.

**· Department issuing MSDS: Safety department****· Contact: Dr. Tuchscherer Tel.: +49 6081 959-287**

USA