

SAFETY DATA SHEET

According to UK REACH and GB CLP Regulations

Issue Date: [12/08/2026] DD/MM/YYYY | Version: 1.0

Section 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier:**
- **Trade name:** Dental alginate impression material
- **Product composition:** Alginate impression material is made of alginate, gypsum, and diatomaceous earth. Powdery, 454 g/bag
- **Purpose of use:** Used for making dental and oral tissue impressions
- **Manufacturer:** Hygedent Inc.

- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Used for making dental and oral tissue impressions. No specific uses advised against identified.

- **1.3 Details of the supplier of the safety data sheet:**
- **Manufacturer:** Hygedent Inc. , Gate E, Building 1, No. 97, Changping Road, Shahe Town, Changping District, Beijing, China.
- **UK Importer & Distributing Supplier:** Denka UK
- **Address:** Unit 5a, Broom Business Park, Bridge Way, Chesterfield, S41 9QG
- **Telephone / Email:** 01246 267180

- **1.4 Emergency telephone number: 01246 267180**

Section 2: Hazards identification

- **2.1 Classification of the substance or mixture:**
- **Skin Sensitisation – Category 1**
- **H317: May cause an allergic skin reaction.**
- **Additional hazard information:** The product is a powder and prolonged inhalation may cause breathing difficulties.

- 2.2 Label elements:

Element	Classification Details
Hazard Class & Category	Specific Target Organ Toxicity — Repeated Exposure, Category 1 (STOT RE 1)
Signal Word	DANGER
Hazard Pictogram	 Health Hazard Icon (GHS08)
Hazard Statement	H372: Causes damage to organs (lungs) through prolonged or repeated exposure if inhaled.
Precautionary Statements	P260: Do not breathe dust/fume/gas/mist/vapours/spray. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P314: Get medical advice/attention if you feel unwell.

- 2.3 Other hazards: The product is supplied as a powder. Dust formation should be avoided, as inhalation may cause breathing difficulties. No other hazards are identified based on the available information.

Section 3: Composition/information on ingredients

- 3.1 Substances / 3.2 Mixtures:

· Dangerous components:		
CAS#	Name	%by weight
68855-54-9	Diatomaceous earth	84.5-73%
9005-38-3	Alginate	7.5 - 15%
13397-24-5	Calcium sulphate	8 - 13%

Section 4: First-aid measures

- **4.1 Description of first aid measures**
- **Inhalation:** Move the affected person to fresh air. If breathing difficulties occur, seek medical attention.
- **Skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **Eye contact:** Rinse cautiously with water for several minutes.
- **Ingestion:** Rinse mouth with water. Seek medical advice.
- **4.2 Most important symptoms and effects, both acute and delayed:**
- May cause breathing difficulties if inhaled. May cause skin sensitization.

Section 5: Fire-fighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing media:** Use extinguishing measures appropriate to the local circumstances and surrounding environment.
- **Unsuitable extinguishing media:** No specific unsuitable extinguishing media identified.
- **5.2 Special hazards arising from the substance or mixture:**
- Formation of toxic gases is possible during heating or in case of fire

Section 6: Accidental Release Measures

- **6.1 Personal precautions, protective equipment and emergency procedures:**
- Avoid generating or inhaling dust. Avoid contact with the eyes and skin. Use appropriate personal protective equipment where necessary.
- **6.2 Environmental precautions:**
- Prevent large quantities of the product from entering drains or watercourses.
- **6.3 Methods and material for containment and cleaning up:**
- Collect spilled material and place it in suitable receptacles for recovery or disposal. Avoid creating dust during cleanup.
- **6.4 Reference to other sections:**
- See Section 7 for safe handling and storage, Section 8 for personal protective equipment, and Section 13 for disposal considerations.

Section 7: Handling and Storage

- **7.1 Precautions for safe handling**
 - Prevent formation of dust.
 - Avoid contact with eyes.
 - Avoid ingestion and inhalation.
 - Provide local exhaust/suction ventilation if dust is generated.
 - No special measures are required for protection against fire or explosion.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - No special requirements for storage rooms or containers.
 - No special storage requirements identified.
 - Keep the product protected from humid environments, as the product is incompatible with other substances in humid conditions.
- **7.3 Specific end use(s)**
 - Dental alginate impression material used for making dental and oral tissue impressions.

Section 8: Exposure Controls/Personal Protection

Substance	CAS No.	WEL / DNEL
Diatomaceous earth	68855-54-9	WEL:0.1mg/m³ (8-hour TWA) for the respirable fraction /form:UK HSE EH40/2005 / DNEL(Worker,Inhalation): 0.1mg/m³ (Long - term) . This value is derived from the UK WEL for respirable crystalline silica.
Alginate	9005-38-3	No specific WEL identified; No specific UK WEL is established. DNEL is not required due to low toxicological concern.
Calcium sulphate	13397-24-5	WEL: 10 mg/m³ inhalable dust, 4 mg/m³ respirable dust; DNEL: 21.17 mg/m³ inhalation, long-term systemic (employee)

- **8.1 Control parameters**
 - Exposure should be controlled by preventing dust formation and avoiding inhalation.

- **8.2 Exposure controls**
- **Appropriate engineering controls:**
- Provide local exhaust/suction ventilation where dust is generated.
- **Respiratory protection:**
- Use a particle-filtering mask/respirator where dust is generated.
- **P2 (FFP2 EN 149:2001) / P3 (FFP3 EN 149:2001) filters.**
- **Hand protection:**
- Protective gloves are recommended where skin contact cannot be avoided. **PVC or PE gloves and natural rubber (NR)** as suitable materials.
- **Eye protection:**
- Safety glasses with side-shields are recommended where dust is generated.
- **Body protection:**
- Lightweight protective clothing.
- **Hygiene measures:**
- Remove contaminated clothing and wash hands before breaks and at the end of work.

Section 9: Physical and Chemical Properties

· General Information
· Form: Powder · Color: Red, white, yellow · Odor: Mint · pH: 7.5 - 9
· Change in condition · Melting point/Melting range: Not applicable · Boiling point/Boiling range: Not applicable
· Flash point: Not applicable
· Auto-igniting: Product is not self-igniting.
· Danger of explosion: Product does not present an explosion hazard.
· Density: Not determined
· Bulk density: 450 -500 kg/m ³

Section 10 — Stability and Reactivity

- **10.1 Reactivity:**
- No specific reactivity information.
- **10.2 Chemical stability:**
- The product is stable under normal conditions.
- **10.3 Possibility of hazardous reactions:**
- No hazardous polymerisation will occur.
- **10.4 Conditions to avoid:**
- Avoid humid/moist conditions and prevent unnecessary dust formation.
- **10.5 Incompatible materials:**
- Incompatible with other substances in humid environments.
- **10.6 Hazardous decomposition products:**
- Toxic gases may form during heating or fire.

Section 11 — Toxicological Information

- Information on toxicological effects
- Skin corrosion/irritation:
- No irritating effect on the skin.
- Serious eye damage/eye irritation:
- No irritating effect on the eyes.
- Respiratory or skin sensitisation:
- Sensitisation is possible through skin contact. The product may cause sensitization by skin contact.

Section 12 — Ecological Information

- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach groundwater or the sewage system.

Section 13 — Disposal Considerations

- **Recommendation**
- Must not be disposed of together with household garbage. Do not allow the product to reach the sewage system.
- **Uncleaned packaging:**
- Disposal must be made according to official regulations.

- Packaging that cannot be cleansed is to be disposed of in the same manner as the product.

Section 14 — Transportation Information

- **14.1 UN number or ID number:**
 - Not applicable / Not assigned
- **14.2 UN proper shipping name:**
 - Not applicable
- **14.3 Transport hazard class(es):**
 - Not applicable
- **14.4 Packing group:**
 - Not applicable
- **14.5 Environmental hazards:**
 - No specific transport environmental hazard classification
- **14.6 Special precautions for user:**
 - No special transport precautions are specified in the original SDS.

Section 15 — Regulatory Information

- **15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture:**
 - The product is subject to applicable UK REACH and GB CLP requirements. Relevant workplace health and safety requirements should also be considered, including COSHH where applicable.
- **15.2 Chemical Safety Assessment :**
 - Chemical Safety Assessment: Not required (import volume < 10 t/year).

Section 16 — Other information

- This SDS is compiled in accordance with UK REACH and GB CLP.
- H-statements referred to: H317 (skin sensitisation); H372 (lung damage via prolonged inhalation).
- Key references: IARC Monographs Volume 100C — Crystalline Silica, Group 1; UK HSE EH40/2005.
- Issue Date: 12/08/2026 | Version: 1.0
- Disclaimer: This SDS is provided for guidance on safe handling. Users should assess risks per their own conditions of use.