

MATERIAL SAFETY DATA SHEET

SECTION I – Product/Company Identification

1.1 Product Trade Name: **QUALA Dental Products - Alginate Impression Material Fast Set and Regular Set**

1.2 Part (Item) Number:

1.3 Division Name:

1.4 Address:
City State Zip:

1.5 Emergency Telephone Number:

1.6 Telephone Number for Information:

1.7 Date Prepared: 10/18/99 **Dated Revised:** 9/21/01

SECTION II - Hazardous Ingredients/Identity Information

<u>Hazardous Components</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>CAS #</u>	<u>Percent</u>
Crystalline Silica - Cristobalite	0.05 mg/m ³	0.05 mg/m ³	14464-46-1	< than 55%
Crystalline Silica -Quartz	0.05 mg/m ³	0.05 mg/m ³	14808-60-7	with above
Amorphous Silica - Diatomaceous Earth	1.2 mg/m ³	10 mg/m ³	6855-59-5	< than 20%
Calcium Sulfate	10 mg/m ³	10 mg/m ³	10101-41-4	< than 15%
Tetrasodium Pyrophosphate	5 mg/m ³	5 mg/m ³	7722-88-5	< than 5 %
Sodium Alginate (As nuisance dust)	15 mg/m ³	10 mg/m ³	9005-38-3	< than 15 %
Magnesium Oxide (As nuisance dust)	15 mg/m ³	10 mg/m ³	1309-48-4	< than 7 %

Warning: This product contains silica, crystalline (airborne particles of respirable size) which is known by the State of California to cause cancer.

OTHER INFORMATION:

Fast Set Product contains D & C Red # 30 Aluminum Lake as colorant.

Regular Set Product contains synthetic Yellow Iron Oxide as colorant.

Additional Notes: This product does not contain gluten, flax seed, natural rubbers or natural latexes.

SECTION III - Physical/Chemical Characteristics

3.1 Boiling point: N. A. **3.6 Specific Gravity:** 0.3 g/cm³

3.2 Vapor pressure: N. A. **3.7 Melting Point:** N. A.

3.3 Vapor density: N. A. **3.8 Evaporation rate:** N. A.

3.4 Solubility in water: Partially Soluble

3.5 Appearance and odor: Dry fluffy powder with spearmint odor; may be colored.

SECTION IV - Fire and Explosion Hazard Data

4.1 Flash point (method used): N. A.

4.2 Flammability (explosive limits): **LEL: N.A.** **UEL: N.A.**

4.3 Extinguishing media: N. A.

4.4 Special fire fighting procedures: N. A.

4.5 Unusual fire and explosion hazards: In common with most organic materials, this product should be treated as a combustible dust in the finely divided and suspended state.

SECTION V – Reactivity Data

5.1 Stability: **Unstable:** **Stable: X**

5.2 Conditions to avoid (stability): High humidity and water contamination will cause material to gel. Prolonged exposure to heat greater than 60°C (140°F)

5.3 Incompatibility (materials to avoid): Hydrofluoric acid.

5.4 Hazardous decomposition or byproducts: N.A.

5.5 Hazardous polymerization: **May occur:** **Will not occur: X**

5.6 Conditions to avoid (polymerization): High humidity and prolonged heat greater than 60°C

SECTION VI - Health Hazard Data

6.1 Primary route(s) of entry:	Inhalation?: Yes Skin?: No Ingestion?: Yes
6.2 Health hazards (acute and chronic):	Acute: Transitory upper respiratory irritation or eye irritation. Chronic: Inhalation of crystalline silica has been classified by IARC as carcinogenic for humans (Group 1). Inhalation of crystalline silica is also a known cause of silicosis, a non-cancerous lung disease caused by excessive exposure to crystalline silica. Respirable dust from this product may contain up to 52 % free crystalline silica (Cristobalite). As such it represents a risk to the respiratory system. Long term, unprotected exposure to dust levels in excess of the TLV or PEL may cause lung disease (silicosis).
6.3 Carcinogenicity:	NTP?: Proposed IARC monographs?: Yes (Group 1) OSHA regulated?: Yes
6.4 Signs and symptoms of exposure:	Inhalation: Irritation and soreness in throat and nose. In extreme exposures some congestion may occur. Eyes: Temporary irritation or inflammation. Not hazardous when ingested.
6.5 Medical conditions generally aggravated by exposure:	Pre-existing upper respiratory and lung diseases such as but not limited to bronchitis, emphysema, and asthma. Target organs: Lungs, Eyes.
6.6 Emergency first aid procedures:	Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust. For eyes flush with copious amounts of water for 15 minutes. If irritation persists consult a physician.

SECTION VII - Precautions for Safe Handling and Use

7.1 Steps to be taken in case material is released or spilled:	Vacuum clean dust with equipment fitted with a HEPA filter. Use dust suppression such as water if sweeping is necessary. Sweep up spilled material and place in closed containers for disposal.
7.2 Waste disposal methods:	Dispose of in accordance with Federal, State and Local regulations.
7.3 Precautions to be taken in handling and storage:	Minimize dust generation and accumulation. Avoid breathing dust, avoid contact with eyes. Return cap to canisters immediately. Close pouches immediately after use. Continue to follow all MSDS/label warnings when handling empty containers. Observe normal warehouse handling procedures. Store in a cool dry area. Store away from foodstuffs and beverages.
7.4 Other precautions:	The avoidance of any air contaminant is always a recommended practice. Adherence to work place ventilation standards is an assurance of general personnel health and comfort. Handling of this product should be by trained dental healthcare professionals only.

SECTION VIII – Control Measures / Personal Protection

8.1 Respiratory protection:	Recommended NIOSH approved nuisance dust mask. <10X PEL, use 3M 9900; <100X PEL, use MSA Ultra-Twin with H filter; <200X PEL, use MSA 01-00-06 with type C supplied air unit (continuous flow mode); or equivalent.
8.2 Ventilation:	Use sufficient natural or mechanical ventilation to keep dust level below PEL.
8.3 Protective gloves:	Rubber gloves.
8.4 Eye protection:	Goggles or safety glasses with sideshields.
8.5 Other protective clothing or equipment:	Rubber apron.
8.6 Work/Hygienic practices:	Avoid dusting when in use. Observe normal care when working with chemicals. Handling of this product should be by trained dental healthcare professionals only.

NFPA HAZARD CLASSIFICATIONS	
Health	2
Flammability	0
Reactivity	0
Specific Hazard	N. A.

NFPA – National Fire Protection Association
N.A. - Not Applicable
N.E. - Not Established

(R-9-21-01)