

MATERIAL SAFETY DATA SHEET

SECTION I - Product/ Company Identification

Product Trade Name: ALGINATE IMPRESSION MATERIAL
Part (Item) Number(s): 603-0103, 603-0203, 603-0303, 603-0403, 603-0503
604-0103, 604-0203, 604-0303, 604-0403, 604-0503
604-0603;
Manufacturer Name: DENTAL TECHNOLOGIES, INC.
Address: 6901 N. HAMLIN AVENUE
City State Zip: LINCOLNWOOD, IL 60712 U.S.A.
Emergency Telephone Number: (800) 424-9300 (Chemtrec)
Information Telephone Number: (800) 835-0885 / (847) 677-5500
Date Revised: 14 Jul, 2010 Rev 001

SECTION II - Hazardous Ingredients / Identity Information

Hazardous Components:	Concentration	CAS No.	OSHA PEL	ACGIH TLV
Diatomaceous Earth	< 75 %	68855-54-9	0.05 mg/m ³	0.05 mg/m ³
Crystalline Silica - Cristobalite	(< 75% of above)	14464-46-1	0.05 mg/m ³	0.05 mg/m ³
Crystalline Silica - Quartz	(< 5% of above)	14808-60-7	0.05 mg/m ³	0.05 mg/m ³
Calcium Sulfate	< 20 %	13397-24-5	10 mg/m ³	10 mg/m ³
Sodium Alginate (as nuisance dust)	< 20 %	9005-38-3	15 mg/m ³	15 mg/m ³
Zinc Oxide	< 10 %	1314-13-2	15 mg/m ³	15 mg/m ³
Potassium Titanium Fluoride	< 5 %	16919-27-0	2.5 mg/m ³	2.5 mg/m ³
Tetrasodium Pyrophosphate	< 5 %	7722-88-5	Not Listed	5 mg/m ³

SECTION III - Hazards Identification

Warning: This product contains crystalline silica, (airborne particles of respirable size) which is considered a hazard by inhalation. IARC has classified inhalation of CS as carcinogenic for humans (Group 1). CS is listed by NTP as substance which may reasonably be anticipated to be a carcinogen. Inhalation of CS is also known to cause silicosis or non-cancerous lung disease.

SECTION IV - First Aid Measures

Skin: Wash off with soap and water. Remove contaminated clothing. If irritation persists consult a physician.
Ingestion: Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust.
Eyes: Flush with plenty of water. If irritation persists seek medical attention by an ophthalmologist.
Inhalation: N/E

SECTION V - Fire-fighting Measures.

Suitable extinguishing Media: Chemical Foam, Carbon Dioxide, or Dry Chemical
Forbidden extinguish Media: Unknown
Special Exposure Hazards: None. Wear self contained breathing equipment
Unusual fire and explosion hazards: Heat can initiate exotherm polymerization.
Special Protection Equipment: None. During emergency conditions, overexposure to thermal decomposition products may cause health hazard.

SECTION VI - Accidental release measures

Personal Precautions: See sections VII and VIII. Avoid contact with skin, soft tissue or eye. Use good personal hygiene.

Environmental Precautions: Do not dump in sewer any spilled material.

Methods for Cleaning up: Clean up using impervious gloves, wipe up with paper towels and dispose of in an approved manner.

SECTION VII - Handling and Storage

Handling: Avoid unnecessary exposure.

Storage: Room temperature, preferably cool, dry place.

Containers: Keep in original container supplied by manufacturer.

Other Precautions: Use according to directions. Avoid contact with eyes, skin and soft tissue.

SECTION VIII - Exposure Controls / Personal Protection.

General Measures: Ventilation: Use sufficient local exhaust to reduce dust to the PEL for respirable quartz level

Limits: TWA: Not determined; PEL: < 0.05 mg/m³.

Respiratory protection: Use NIOSH approved dust mask respirator under appropriate OSHA standards and regulations.

Hands Protection: Impervious Gloves optional

Eye Protection: Safety Glasses or Goggles to protect for dust particles.

Skin Protection: Respect good personal hygiene practice. Avoid unnecessary exposure.

Other Equipment: Lab Coat.

SECTION IX - Physical and Chemical Properties.

Appearance:	Powder	Explosion Limits:	N/A
Vapor Density	N/A	Flash Point	N/A
Odor	Flavored	Water solubility:	Powder absorbs water.
Vapor Pressure	N/A	Specific Gravity	N/E
Boiling Point:	N/A	Evaporation Rate:	N/A

SECTION X - Stability and Reactivity.

Stability: Stable under normal storage conditions

Conditions to avoid: Temperatures over 27 °C / 80 °F, direct sunlight or high intensity light.

Materials to avoid: Moisture

Hazardous Decomposition Products: Carbon Oxides

Hazardous Polymerization Products: May occur

SECTION XI - Toxicological Information.

Ingestion: May cause indigestion.

Eye contact: May cause irritation, pain, eye burns or eye damage.

Skin Contact: May cause cause irritation or rash for persons with preexistent skin sensitivity.

Inhalation: Acute: Transitory upper respiratory irritation.

Prolonged exposure: Inhalation of crystalline silica is classified by the IARC as carcinogenic for humans and is also a known cause of silicosis, a non-cancerous lung disease. Long-term, unprotected exposure to dust levels above listed PEL or TLV may cause silicosis.

SECTION XII - Ecological Information.

There is no specific information on the product. Use according to good working practice.

Avoid releasing the product into environment.

SECTION XIII - Disposal Considerations.

Incinerate or dispose according to local regulations.

SECTION XIV - Transport Information.

SEA TRANSPORTATION

Substances determining Hazard: None
IMCO # N/A
UN # N/A

AIR TRANSPORTATION

ICAO/IATA Class N/A
Substances determining Hazard: none

ROAD / RAILWAY TRANSPORTATION:

RID/ADR N/A
Class N/A
Hazard Identification # N/A
Substance Identification # N/A
Hazard Label N/A

SECTION XV - Regulatory Information

CLASSIFICATION IN ACCORDANCE WITH EEC DIRECTIVES.

Hazard Classification Symbol::

Risk Statements: R22 Harmful if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin

Safety Statements: S36 Wear protective clothing

Ingredients Determining the label: N/A

SECTION XVI - Other Information

Abbreviations:

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

CAUTION: PRODUCT FOR PROFESSIONAL USE ONLY.

The above information is based on presently available data and to our best knowledge for handling the product under normal conditions. Any use of this product in any way not indicated on this document or using it together with any other process/procedure will be exclusively under the user's responsibility.
