

MATERIAL SAFETY DATA SHEET

SECTION I – Product/Company Identification

1.1 Product Trade Name: JELTRATE® Alginate Impression Material
1.2 Part (Item) Number: 608005 – 608522 All Package Configurations
1.3 Division Name: DENTSPLY Caulk
1.4 Address: 38 West Clarke Avenue
City State Zip: Milford DE 19963-0359
1.5 Emergency Telephone Number: (800) 424-9300 (Chemtrec)
1.6 Telephone Number for Information: (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time)
1.7 Date Prepared: 8/18/97 **Dated Revised:** 10/18/99

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	ACGIH TLV
Crystalline Silica - Cristobalite	0.05 mg/m ³	0.05 mg/m ³
Crystalline Silica -Quartz	0.05 mg/m ³	0.05 mg/m ³
Amorphous Silica - Diatomaceous Earth	1.2 mg/m ³	10 mg/m ³
Calcium Sulfate	10 mg/m ³	10 mg/m ³
Tetrasodium Pyrophosphate	5 mg/m ³	5 mg/m ³
Potassium Alginate (As nuisance dust)	15 mg/m ³	10 mg/m ³
Magnesium Oxide (As nuisance dust)	15 mg/m ³	10 mg/m ³

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.

SECTION III - Physical/Chemical Characteristics

3.1 Boiling point:	N. A.	3.6 Specific Gravity:	0.3 g/cm ³
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 (Group1). 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: as	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.

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..

NFPA HAZARD CLASSIFICATIONS		
Health	2	NFPA – National Fire Protection Association N.A. - Not Applicable N.E. - Not Established
Flammability	0	
Reactivity	0	
Specific Hazard	N. A.	