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:	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**
Flammability	**0**
Reactivity	**0**
Specific Hazard	**N. A.**

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

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 nusiance dust)	15 mg/m^3	10 mg/m^3
Magnesium Oxide (As nusiance 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	