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MATERIAL SAFETY DATA SHEET

SECTION 1 - SOURCE/IDENTITY/USE INFORMATION:

**MANUFACTURER** **SUPPLIER**  
 GC AMERICA, INC.  
 3737 West 127th St.  
 Chicago, Illinois 60658  
 Telephone: 708-597-0900  
 : Mon. - Fri. 8:00 am. - 5:00 pm. C.S.T.  
 Portation Emergency Telephone No. 800-424-9300

**C. NAME:** COE ALGINATE CHERRY - FAST/NORMAL  
 COE ALGINATE MINT - FAST/NORMAL

**Chemical Name:** N.A.

**PRODUCT USE:** Dental impression material (powder component) to be mixed with water.

The following information is provided with regard to the toxicity and hazards of the pure components present in this product.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT AND C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Calcium Sulfate 7778-18-9	TWA=10mg/m3 (ACGIH) TWA=15mg/m3 (total dust) TWA=5mg/m3 (respirable) (OSHA)	N.E.	7-13%
Crystalline Silica 14464-46-1	TWA=0.05mg/m3 (ACGIH)	N.E.	30-60%
Zinc oxide 1314-13-2	TWA=10mg/m3 (dust) (ACGIH) TWA=5mg/m3 (fume) (ACGIH) STEL=10mg/m3 (ACGIH) TWA=15mg/m3 (total dust) TWA=5mg/m3 (respirable) (OSHA)	LD50=7.9g/kg (oral rat) LC50=N.E.	1-5%
Potassium Titanium Fluoride 1619-27-5	PEL=2.5mg/m3 (TLV=2.5mg/m3 fluoride) (OSHA)	N.E.	1-5%
Tetra Sodium Pyrophosphate 7722-88-5	TLV=5mg/m3 TWA=5mg/m3 (ACGIH)	LD50=4 g/Kg LC50=N.E.	1-5%

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOTTLING POINT: N.A. SPECIFIC GRAVITY (H<sub>2</sub>O = 1): >1.0  
 VAPOR PRESSURE: N.A. MELTING POINT: N.E.  
 VAPOR DENSITY: N.A. EVAPORATION RATE: N.A.  
 SOLUBILITY IN WATER: N.E. ODOR THRESHOLD: N.E.  
 COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.

**APPEARANCE AND ODOR:** Pink/white free flowing powder with cherry/mint odor.

SECTION 4 - FIRE AND EXPLOSION DATA:

**FLASH POINT:** N.A. **FLAMMABLE LIMITS:** N.A.  
**EXTINGUISHING MEDIA:** Material is non-combustible. Use extinguishing media appropriate to the surrounding area.  
**SPECIAL FIRE FIGHTING PROCEDURES:** N.A.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Powder mixed with air may produce conditions conducive to explosion if spark source is present.  
**HAZARDOUS COMBUSTION PRODUCTS:** N.A.

SECTION 5 - REACTIVITY DATA

**STABILITY:** STABLE: X UNSTABLE:  
**POLYMERIZATION:** WILL NOT OCCUR: X WILL OCCUR:  
**CONDITIONS TO AVOID:** Where dust is present - sparks. Avoid high temperatures and humidity.  
**INCOMPATIBILITY (MATERIALS TO AVOID):** Avoid contact with hydrofluoric acid. Contact with acids liberates hydrogen fluoride gas which is toxic and corrosive.  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** At elevated temperatures various fluoride compounds will be liberated, including hydrogen fluoride and potassium fluoride. At temperatures above 1450°C releases sulfur dioxide and calcium oxide.

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

	YES	NO	N.E.	N.A.	NTP	IARC	OSHA	OTHER
<b>MUTAGENIC AFFECTS:</b>	X							
<b>TERATOGENIC AFFECTS:</b>	X	X						
<b>REPRODUCTIVE TOXIN:</b>	X							
<b>CARCINOGENICITY:</b>	X							
<b>SENSITIZER:</b>		X						

**ROUTES OF ENTRY:** INHALATION X SKIN X INGESTION X

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**COMMON NAME:** Coe Adhesive  
**Chemical Name:** N.A.

**PRODUCT USE:** Tray Adhesive for Polysulfide impression material

The following information is provided with regard to the toxicity and hazards of the pure components present.

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**SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

COMPONENT AND C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Acetone 67-64-1	TWA=750ppm (ACGIH) STEL=100ppm (ACGIH)	LD50=9.75g/Kg (oral rat) LC50=64000 ppm/4hr. (mouse)	40-50%
Toluene 108-88-3	TWA=100ppm (ACGIH) STEL=150ppm (ACGIH)	LD50=2.5 g/Kg (oral rat) LC50=8000 ppm/4hr (mouse)	10-20%
Methyl Ethyl Ketone 78-93-3	TWA=200ppm (ACGIH) STEL=300ppm (ACGIH)	LD50=7ml/Kg (oral rat) LC50=13600ppm/2hr (mouse)	10-20%
Acrylonitrile Butadiene Polymer 900-318-3	N.E.	N.E.	10-20%
Phenol-Formaldehyde polymer 9003-35-4	N.E.	N.E.	1-10%
Glycerol Esters of Rosin Acids 8050-31-5	N.E.	N.E.	1-10%
Salicylic Acid 69-72-7	PEL=15mg/m <sup>3</sup> (OSHA) TWA=15mg/m <sup>3</sup> (OSHA) 5mg/m <sup>3</sup> (respirable)	LD50=891mg/Kg LC50=N.E.	1-10%

SOUTH CENTRAL TECH COLL  
 DENTAL ASSISTING PROGRAM  
 1920 LEE BLVD  
 MANKATO, MN 56003

=== MSDS TRACKING INFORMATION ===  
 MID: 1054942 COE-FLEX INJECTION TYPE  
 PID: SCH2357 CUST: 0186998-004  
 IMG: I:54942\_7 PAGE: 7 of 13

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**SECTION 2 - CONTINUED - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**  
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<u>COMPONENT AND C.A.S.</u>	<u>EXPOSURE LIMITS</u>	<u>LD50/LC50</u>	<u>%</u>
Zinc Oxide	TWA=10mg/m <sup>3</sup> (ACGIH)(as dust) TWA=5mg/m <sup>3</sup> (ACGIH)(as fume) STEL=10mg/m <sup>3</sup> (ACGIH)(as fume)	LD50=7.9g/Kg (oral rat) LD50=N.E.	1-10%
Alkylated Diphenylamines 37338-62-8	N.E.	N.E.	<1%

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**SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES**  
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BOILING POINT: 55.5°C (Acetone) SPECIFIC GRAVITY (H<sub>2</sub>O=1): 0.88  
 VAPOR PRESSURE: 180 MELTING POINT: N.E.  
 VAPOR DENSITY: 2.0 EVAPORATION RATE (Butyl Acetate=1.0): 1.9  
 SOLUBILITY IN WATER: Slight ODOR THRESHOLD: 200 ppm as acetone  
 COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.

APPEARANCE AND ODOR: Brown liquid - Strong ketone odor

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**SECTION 4 - FIRE AND EXPLOSION DATA**  
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FLASH POINT: 17.8°C FLAMMABLE LIMITS: LEL=1.27 UEL=12.8  
 EXTINGUISHING MEDIA: Carbon dioxide, alcohol foam, dry chemical  
 SPECIAL FIRE FIGHTING PROCEDURES: Use self contained breathing apparatus  
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable. If overheated, closed containers adjacent to fire could explode due to internal pressure buildup. Toluene vapors are heavier than air and may flash back.  
 HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may produce formaldehyde and Nitrogen decomposition products including the possibility of HCN.

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**SECTION 5 - REACTIVITY DATA**  
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STABILITY: STABLE: X UNSTABLE:  
 POLYMERIZATION: WILL NOT OCCUR: X WILL OCCUR:

CONDITIONS TO AVOID: High heat

INCOMPATIBILITY (MATERIALS TO AVOID): N.E.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known  
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**SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION**  
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	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS:	X					X		
TERATOGENIC AFFECTS:		X						
REPRODUCTIVE TOXIN:	X					X		
CARCINOGENICITY:		X						
SENSITIZER:		X						

ROUTES OF ENTRY: INHALATION X SKIN X INGESTION X

**HEALTH HAZARD: (ACUTE AND CHRONIC):**  
 Contact with liquid or overexposure to vapors is irritating to the eyes. Prolonged or repeated skin contact will defat the skin and cause irritation and possible dermatitis. Vapor inhalation may cause respiratory irritation and temporary nervous system impairment (light headedness). Ingestion may cause digestive system irritation and nervous system impairment. Mutation references cited, animal reproductive affects cited.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:**  
 Redness, smarting, tearing and swelling of the eyes. Skin may dry and crack. Symptoms of over inhalation include dizziness, headache, nausea and fatigue. Repeated or extreme overexposure to vapors may cause heart, liver, kidney, blood and nervous system damage. Ingestion may cause vomiting and diarrhea. Solvent aspiration into the lung due to vomiting may cause lung damage, which can be harmful or fatal.

**CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Exposure to Acetone may enhance the liver toxicity of chlorinated solvents.

**EMERGENCY FIRST AID PROCEDURES:**

**INGESTION:** Do not induce vomiting. Immediately call a physician or poison control center.

**INHALATION:** For over inhalation, move to fresh air. If breathing is difficult, seek medical attention.

**SKIN:** Wash skin with soap and water. If irritation develops, seek medical attention.

**EYES:** Flush eyes with water for 10 minutes. Seek medical attention.

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