SAFETY DATA SHEETS

This SDS packet was issued with item:

071709724

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071708908 071708916

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

071707587 071707595 071707603 071707611 071707629 071707637 071707645 071707652 071707660 071707678
071708221 071708239 071708247 071708254 071708262 071708270 071708288 071708296 071708304 071708312
071708320 071708338 071708346 071708353 071708361 071708379 071708387 071708395 071708403 071708411
071708429 071708437 071708445 071708452 071708460 071708478 071708486 071708494 071708502 071708510
071708528 071708536 071708924 071708932 071708940 071708957 071708965 071708973 071708981 071708999
071709005 071709013 071709021 071709153 071709161 071709179 071709187 071709195 071709203 071709211
071709229 071709245 071709252 071709260 071709278 071709286 071709294 071709302 071709310 071709328
071709336 071709344 071709351 071709369 071709377 071709534 071709542 071709559 071709567 071709575
071709583 071709591 071709609 071709617 071709625 071709633 071709641 071709658 071709666 071709674
071709682 071709690 071709708 071709716 071709732 071709740 071709757 071709765 071709773 071709781
071709799 071709807 071709815 071709823 071709831 071709849

E3

MATERIAL SAFETY DATA SHEET

SECTION I – Product/Company Information

1.1 Product Trade Name:	**Esthet – X^{TM} Micro Matrix Restorative**
1.2 Part (Item) Number:	630001 – 630080 All Package Configurations
1.3 Division Name:	DENTSPLY Caulk
1.4 Address:	38 W. Clarke Avenue 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:	7/19/99 Dated Revised: 10/18/99

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	ACGIH TLV
Titanium Dioxide	10 mg/m^3	10 mg/m^3
Silica fume (as Dust)	2 mg/m^3	2 mg/m^3
Urethane modified Bis-GMA dimethacrylate	N.E.	N.E.
Barium boron fluoroalumino silicate glass	N.E.	N.E.

SECTION III - Physical/Chemical Characteristics

H - 0
F - 1
R - 0
P - 6

3.1 Boiling point:	N.A.
3.2 Vapor pressure:	N.A.
3.3 Vapor density:	N.A.
3.4 Solubility in water:	Not Soluble
3.5 Appearance and odor:	Various shades of viscous paste with sweet acrylic ester odor.
3.6 Specific Gravity:	2.2 g/cm^2
3.7 Melting Point:	N.E.
3.8 Evaporation rate:	N.A.

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:	Water spray, carbon dioxide, foam, or dry chemical.
4.4 Special fire fighting procedures:	Firefighters should wear full protective clothing including a self contain breathing apparatus.
4.5 Unusual fire and explosion hazards:	During a fire, irritating gas may be present from the decomposition of the dimethacrylate resins.

SECTION V – Reactivity Data

5.1 Stability:	Unstable: Stable: X
5.2 Conditions to avoid (stability):	Bright visible lights on paste, elevated temperatures above 50°C (122°F).
5.3 Incompatibility (materials to avoid):	Strong oxidizing materials.
5.4 Hazardous decomposition or byproducts:	Irritating gases, CO and CO_2
5.5 Hazardous polymerization:	May occur: Will not occur: X
5.6 Conditions to avoid (polymerization):	Elevated temperatures and oxidizing materials. Product is sensitive to visible light and will harden if exposed to visible light. Heat greater than 50°C.

SECTION VI - Health Hazard Data

6.1 Route(s) of entry:	Inhalation?: No Skin?: Yes Ingestion?: Possible
6.2 Health hazards (acute and chronic):	Avoid contact with eyes. May cause irritation. Eyes: Material can cause irritation. Skin: Material may be an irritant. Susceptible persons with known allergies to methacrylates and acrylates may develop allergic response. Ingestion: Material is probably not harmful if swallowed.
6.3 Carcinogenicity:	NTP?: Not listed IARC monographs?: Not listed OSHA regulated?: No All components of this product are in compliance with the inventory listing Requirements of the U. S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
6.4 Signs and symptoms of exposure:	Dermal redness or irritation. Eye contact:Irritation and possible corneal damage. Skin contact: Irritation or possible allergic response. Severe allergic response may result in breathing difficulties.
6.5 Medical conditions generally aggravated by exposure:	Open sores and wounds of the skin. Individuals with known sensitivity to methacrylates, acrylates, or urethane dimethacrylates.
6.6 Emergency first aid	Eyes: In case of eye contact, flush with flowing water for 15 minutes.

procedures:	Get prompt medical attention. Skin: Wash skin with soap and water. If irritation persists, call physician. Ingestion: If swallowed give 2 glasses of water to drink. See a physician.

SECTION VII - Precautions for Safe Handling and Use

7.1 Steps to be taken in case material is released or spilled:	Scoop up bulk material and place in a labeled plastic or metal container. Avoid gross skin contact to minimize the possibility of contact dermatitis to susceptible persons.
7.2 Waste disposal methods:	Dispose of material as solid waste in a closed container. Dispose of in accordance with Federal, State and Local regulations.
7.3 Precautions to be taken in handling and storage:	Store in a dry area, away from direct sunlight. Maximum storage temperature is 50°C(122°F). Normal storage is at room temperature. Store away from food and beverages.
7.4 Other precautions:	Avoid contact with skin. Observe normal warehouse handling procedures.

SECTION VIII - Control Measures

8.1 Respiratory protection:	None required during normal use of this product.
8.2 Ventilation:	None required during normal intended use of this product. Local exhaust can be used to keep vapors below threshold level.
8.3 Protective gloves:	Latex or vinyl gloves.
8.4 Eye protection:	Protective goggles.
8.5 Other protective clothing or equipment:	Chemically resistant apron or other impervious clothing.
8.6 Work/Hygienic practices:	Observe normal care when working with chemicals.

NFPA HAZARD CLASSIFICATIONS	
Health	0
Flammability	1
Reactivity	0
Specific Hazard	N.A.

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

530800 (R-10-18-99)

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MATERIAL SAFETY DATA SHEET

SECTION I – Product/Company Information

1.1 Product Trade Name:	**Esthet•X® Improved** Micro Matrix Restorative Compules® and Easy•Twist Syringe
1.2 Part (Item) Number:	**630200 – 630499 All Package Configurations**
1.3 Division Name:	DENTSPLY Caulk
1.4 Address:	38 West Clarke Avenue
City State Zip:	Milford DE 19963 – 0359
Internet Address:	**http://www.caulk.com**
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:	6/25/03

SECTION II – Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	ACGIH TLV	CAS #	Percent
Titanium Dioxide	10 mg/m^3	10 mg/m^3	13463-67-7	< than1%
Silica Amorphous	3 mg/m^3	3 mg/m^3	67762-90-7	< than 3 %
Barium boron fluoroalumino silicate glass	N. E.	N. E.	65997-18-4	> than 70 %
Urethane modified Bis-GMA dimethacrylate	N. E.	N. E.	126646-17-1	< than 25 %

SECTION III – Physical/Chemical Characteristics

3.1 Boiling point:	N. A.	**3.6 Specific Gravity:**	2.2 g/cm^2
3.2 Vapor pressure:	N. A.	**3.7 Melting Point:**	N. E.
3.3 Vapor density:	N. A.	**3.8 Evaporation rate:**	N. A.
3.4 Solubility in water:	Not Soluble		

3.5 Appearance and odor: Various shades of viscous paste with sweet acrylic ester odor.

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: Water spray, carbon dioxide, foam, or dry chemical.

4.4 Special fire fighting procedures: Firefighters should wear full protective clothing including a self contain breathing apparatus.

4.5 Unusual fire and explosion hazards: During a fire, irritating gas may be present from the decomposition of the dimethacrylate resins.

SECTION V – Reactivity Data

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

5.2 Conditions to avoid (stability): Bright visible lights on paste, elevated temperatures above 50°C (122°F).

5.3 Incompatibility (materials to avoid): Strong oxidizing materials.

5.4 Hazardous decomposition or byproducts: Irritating gases, CO and CO_2

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

5.6 Conditions to avoid (polymerization): Elevated temperatures and oxidizing materials. Product is sensitive to visible light and will harden if exposed to visible light. Heat greater than 50°C.