

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

071709708

**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 071709716 071709724 071709732 071709740 071709757 071709765 071709773 071709781  
071709799 071709807 071709815 071709823 071709831 071709849

# MATERIAL SAFETY DATA SHEET

## SECTION I – Product/Company Information

- 1.1 Product Trade Name: **Esthet – X<sup>TM</sup> 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 <sup>3</sup>	10 mg/m <sup>3</sup>
Silica fume (as Dust)	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Urethane modified Bis-GMA dimethacrylate	N.E.	N.E.
Barium boron fluoroalumino silicate glass	N.E.	N.E.

## SECTION III - Physical/Chemical Characteristics

- 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<sup>2</sup>  
3.7 Melting Point: N.E.  
3.8 Evaporation rate: N.A.

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

## 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.

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## SECTION V – Reactivity Data

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- 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<sub>2</sub>
- 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.

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## SECTION VI - Health Hazard Data

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- 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.

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## SECTION VII - Precautions for Safe Handling and Use

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- 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.

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## SECTION VIII - Control Measures

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- 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)

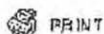
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ORIGINAL MSDS



GLOSSARY

ACTIO MSDS ID: 29143

View Section:

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**Dentsply/Caulk****NFPA**

Esthet X Micro Matrix Restorative

1

Manufacturer MSDS Number: 530800

0

0

0

**Patterson Companies, Inc.** Product Code:

71731900,71731405,71732551,71732510,71732502,71731819,71731801,71731132

**SECTION 1 : Chemical Product and Company Identification**

MSDS Name: Esthet X Micro Matrix Restorative

Manufacturer Name: Dentsply/Caulk

Department: Dentsply Caulk

Address:

38 W. Clarke Avenue  
Milford DE 19963 - 0359

Business Phone: (302) 422-4511

For information in North America, call: (302) 422-4511

For emergencies in the US, call CHEMTREC: 800-424-9300

Hours Of Operation: (8:00 AM - 4:30 PM Eastern Time)

Manufacturer MSDS Revision Date:

6/19/01

Supersedes: 10/18/99

Trade Names:

Esthet•X® Micro Matrix Restorative  
Compules® and Easy•Twist Syringe**NFPA**

Health: 0

Flammability: 1

Reactivity: 0

Other: N. A.

Product Codes:

630001 - 630199 All Package Configurations



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**SECTION 2 : Hazardous Ingredients/Identity Information**

Chemical Name	CAS#	Percent	
Titanium Dioxide	13463-67-7	< than 1%	

OSHA PEL TWA: 10 mg/m3

ACGIH TLV TWA: 10 mg/m3

Chemical Name	CAS#	Percent	
Silica amorphous	67762-90-7	< than 3%	

OSHA PEL TWA: 3 mg/m3

ACGIH TLV TWA: 3 mg/m3

Chemical Name	CAS#	Percent	
Barium boron fluoroaluminosilicate glass	65997-18-4	> than 70%	

OSHA PEL TWA: Not Established

ACGIH TLV TWA: Not Established

Chemical Name	CAS#	Percent	
Urethane modified Bis-GMA dimethacrylate	126646-17-1	< than 25%	

OSHA PEL TWA: Not Established

ACGIH TLV TWA: Not Established



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**SECTION 3 : Physical And Chemical Characteristics**

Physical State/Appearance:

Various shades of viscous paste

Odor:

Sweet acrylic ester odor

Vapor Pressure:

Not Applicable

Vapor Density:

Not Applicable

Boiling Point:

Not Applicable

Melting Point:

Not Established

Solubility:

In Water: Not Soluble

Specific Gravity:

2.2 g/cm2

Evaporation Point:

Not Applicable

FlashPoint:

Not Applicable

Upper Flammable Explosive Limit:  
Not Applicable  
Lower Flammable Explosive Limit:  
Not Applicable



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#### SECTION 4 : Fire And Explosion Hazards

Flash Point:  
Not Applicable  
Flash Point Method:  
Not Applicable  
Upper Flammable or Explosive Limit: Not Applicable  
Lower Flammable or Explosive Limit: Not Applicable  
Extinguishing Media:  
Water spray, carbon dioxide, foam, or dry chemical.  
Fire Fighting Instructions:  
Firefighters should wear full protective clothing including a self contain breathing apparatus.  
Unusual Fire Hazards:  
During a fire, Irritating gas may be present from the decomposition of the dimethacrylate resins.



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#### SECTION 5 : Health Hazards

##### Applies to All Ingredients:

Route of Exposure:

Inhalation: No  
Skin: Yes  
Ingestion: Possible

Potential Health Effects:

(Acute and chronic): Avoid contact with eyes. May cause Irritation.

Eye Contact:

Acute: Material can cause Irritation.

Skin Contact:

Acute: Material may be an Irritant. Susceptible persons with known allergies to methacrylates and acrylates may develop allergic response.

Ingestion:

Acute: Material is probably not harmful if swallowed.

Chronic Eye Contact:

Material can cause irritation.

Chronic Skin Contact:

Material may be an irritant. Susceptible persons with known allergies to methacrylates and acrylates may develop allergic response.

Chronic Ingestion:

Material is probably not harmful if swallowed.

Carcinogenicity:

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.

NTP Designation: Not listed

IARC Designation: Not listed

**Signs/Symptoms:**

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.

**Aggravation of Pre-Existing Conditions:**

Open sores and wounds of the skin. Individuals with known sensitivity to methacrylates, acrylates, or urethane dimethacrylates.



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## **SECTION 6 : Emergency And First Aid Procedures**

**Eye Contact:**

In case of eye contact, flush with flowing water for 15 minutes. Get prompt medical attention.

**Skin Contact:**

Wash skin with soap and water. If irritation persists, call physician.

**Ingestion:**

If swallowed give 2 glasses of water to drink. See a physician.



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## **SECTION 7 : Reactivity Data**

**Chemical Stability:**

Stable

**Conditions to Avoid:**

(Stability): Bright visible lights on paste, elevated temperatures above 50 deg C (122 deg F).

**Incompatibilities with Other Materials:**

Strong oxidizing materials.

**Hazardous Polymerization:**

Will not occur

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 deg C.

**Hazardous Decomposition Products:**

Irritating gases, CO and CO2



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## **SECTION 8 : Precautions For Safe Handling**

**Spill Cleanup Measures:**

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.

**Other Precautions:**

Avoid contact with skin. Observe normal warehouse handling procedures. Observe normal warehouse handling procedures. Handling of this product should be by trained dental healthcare professionals only.

**Storage:**

Store in a dry area, away from direct sunlight. Maximum storage temperature is 50 deg C (122 deg F). Normal storage is at room temperature. Store away from food and beverages.

**Hygiene Practices:**

Observe normal care when working with chemicals. Handling of this product should be by trained dental healthcare professionals only.

**Waste Disposal:**

Dispose of material as solid waste in a closed container. Dispose of in accordance with Federal, State and Local regulations.



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**SECTION 9 : Control Measures****Ventilation System:**

None required during normal intended use of this product.

**Local Exhaust:**

Local exhaust can be used to keep vapors below threshold level.

**Hand Protection Description:**

Protective gloves: Use latex or vinyl gloves.

**Eye/Face Protection:**

Protective goggles.

**Protective Clothing/Body Protection:**

Chemically resistant apron or other impervious clothing.

**Respiratory Protection:**

None required during normal use of this product.

**Work/Hygienic practices:**

Observe normal care when working with chemicals. Handling of this product should be by trained dental healthcare professionals only.



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**SECTION 10 : Other Information****Applies to all ingredients:****TSCA 8(b): Inventory Status**

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.

**NFPA:**

Fire Hazard: 1

Health: 0

Reactivity: 0

Specific Hazard: Not Applicable

**MSDS Revision Date:**

6/19/01

Supersedes: 10/18/99

**Abbreviations**

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

530800 (R-6-19-01)

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