

SAFETY DATA SHEETS

This SDS packet was issued with item:

071709625

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 071709633 071709641 071709658 071709666 071709674 071709682
071709690 071709708 071709716 071709724 071709732 071709740 071709757 071709765 071709773 071709781
071709799 071709807 071709815 071709823 071709831 071709849

**DENTSPLY/International
DENTSPLY/Caulk
Safety Data Sheet**

530699

1. Identification

| | |
|---|--|
| Product Name Esthet•X[®] HD | SDS Code Number 530699 |
| Substance Identity Esthet•X[®] HD High Definition Micro Matrix Restorative | Date of Last Revision 05/16/13 |
| Manufacturer: DENTSPLY Caulk | Address 38 West Clarke Avenue Milford DE 19963-1805 http://www.caulk.com http://www.dentsply.com |
| Grades or Minor Variant Identities Not Applicable | Information Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time) |
| Product Use (for Canada) Light Curing Composite/Dental Filling Material | Emergency Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time) |

2. Hazard(s) Identification



WARNING

CAUSES SKIN IRRITATION

Wash hands thoroughly after handling.

Wear protective gloves.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get Medical Advice/attention.

Take off contaminated clothing and wash before reuse.

3. Composition/Information on Ingredients

| Hazardous Components | C.A.S. Number | Exposure Limits | % |
|--|---------------------|----------------------|-----------|
| Hydrophobic Amorphous Fumed Silica | 68611-44-9 | 10 mg/m ³ | < than 5 |
| Silica (Amorphous) | 67762-90-7 | 3 mg/m ³ | < than 5 |
| Barium boron fluoro alumino silicate glass | 65997-18-4 | 10 mg/m ³ | < than 30 |
| Barium boron alumino silicate glass | 65997-17-3 | 10 mg/m ³ | < than 50 |
| Urethane modified Bis-GMA dimethacrylate | 126646-17-1 | Not Established | < than 10 |
| Polymerizable dimethacrylate resins | 24448-20-2/109-16-0 | Not Established | < than 20 |

Other Information: Colorants are inorganic iron oxides and titanium dioxide.

4. First Aid Measures

| Routes of Exposure | First Aid Instructions | Immediate Medical Attention | Delayed Effects |
|--------------------|--|-----------------------------|-----------------|
| Eye | Rinse opened eye for several minutes under running water. If symptoms persist consult physician | Not Applicable | Not Applicable |
| Skin | Immediately wash with soap and water and rinse thoroughly | Not Applicable | Not Applicable |
| Inhalation | Not Applicable | Not Applicable | Not Applicable |
| Ingestion | Not Applicable | Not Applicable | Not Applicable |
| Mucosa | Rinse tissue for several minutes under running water. If symptoms persist consult physician | Not Applicable | Not Applicable |

Note to Physicians (Treating, Testing and Monitoring): Treat symptomatically.

5. Fire Fighting Measures

| | | | |
|---|--|--|-----------------------|
| Flame Propagation or Burning Rate (for Solids) Not Applicable | Properties Contributing to Fire Intensity Not Applicable | Flammability Classification: Not Applicable | Other: Not Applicable |
| Extinguishing Media: CO ₂ , extinguishing powder, foam carbon dioxide or water spray. Fight larger fires with water spray or alcohol resistant foam. | | Extinguishing Media to Avoid: Water with full jet. | |
| Protection and Procedures for Firefighters: Firefighters should wear self-contained respiratory protective devices. | | | |
| Unusual Fire and Explosion Hazards: Formation of toxic, irritating gases is possible from the decomposition of the dimethacrylate resins. Product does not present an explosion hazard. | | | |

6. Accidental Release Measures

| | | |
|--|--------------------------------------|--|
| Containment Techniques: Material is a paste and as such will not flow. | | |
| Spill/Leak Clean-up Procedures and Equipment: Wear protective clothing and 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. Ensure adequate ventilation. | | |
| Evacuation Procedures: Not Applicable | Special Instructions: Not Applicable | Reporting Requirements: Not Applicable |

7. Handling and Storage

| |
|---|
| Handling Practices and Warnings: Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals. |
| Storage Practices and Warnings: Store only in the original package. Keep package tightly sealed. Store in a dry area. Protect from exposure to direct light. Store away from food and beverages. |

8. Exposure Control / Personal Protection



| Occupational Exposure Limits: Not Applicable | | |
|--|--|---|
| Engineering Controls: Not Applicable | | |
| Individual Protection Measures | Personal Protective Equipment for Normal Use | Personal Protective Equipment for Emergencies |
| Eye/Face | Safety Glasses | Not Applicable |
| Skin | The glove material has to be impermeable and resistant to the product. | Not Applicable |
| Inhalation | Not Required | Not Applicable |
| Body Protection | Protective work clothing | Not Applicable |

9. Physical and Chemical Characteristics

| | | |
|---|--|---|
| Appearance: Various shades of viscous paste. | | Odor: Characteristic sweet acrylic ester odor. |
| Normal Physical State: Very High Viscosity Liquid (Paste) | | Melting Point: Not Applicable |
| Specific Gravity: 2.1 g/cm ³ | Solubility in Water: Not soluble | pH: Not Applicable |
| Vapor Pressure (mm Hg): Not Applicable | Vapor Density (AIR=1): Not Applicable | Evaporation Rate (Butyl Acetate =1): Not Applicable |
| Flashpoint Method: Not Applicable | Flammable (Explosive) Limits in Air LEL: Not Applicable UEL: Not Applicable | Autoignition Temperature: Not Applicable, Product will not autoignite. |
| Other: Not Applicable | | |

10. Stability and Reactivity Data

| | |
|--|---------------------------------|
| Incompatibility (Materials to Avoid): Strong Oxidizing materials. | |
| Hazardous Products Produced During Decomposition: No dangerous decomposition products known if used according to Directions for Use. | |
| Hazardous Polymerization: <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur | Conditions to Avoid: None known |
| Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable | Conditions to Avoid: None known |

11. Toxicological Information

| Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data: Product is an irritant to the skin and mucous membranes. The unpolymerized product may be an irritant to the skin in susceptible persons. On the eye the product has an irritating effect. Sensitization: Repeated or prolonged contact with the unpolymerized material may cause sensitization for persons allergic to acrylates and methacrylates. This product shows the following dangers according to internally approved calculation methods for composite materials: Irritant. | | | | | |
|---|---|--|-----------------------------------|--|-----------------|
| Emergency Overview Material is irritating to eyes, respiratory system and skin. | | | | | |
| Routes of Exposure | Signs and Symptoms | Single, Repeated, or Lifetime Exposure | Severity (Mild, Moderate, Severe) | Acute and Chronic Health Effect(s) | Target Organ(s) |
| Eye | Material can cause irritation. | Single | Moderate | Irritation and possible corneal damage | Not Applicable |
| Skin | Material may be an irritant | Single & Repeated | Moderate | Irritation or possible allergic response. Severe allergic response may result in breathing difficulties. | Not Applicable |
| Inhalation | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Ingestion | Material is not harmful if swallowed using clinically relevant quantities | Not Applicable | Mild | Not Applicable | Not Applicable |
| Mucosa | Material can cause irritation. | Single | Mild | Inflammation of the mucosa | Not Applicable |
| Medical Conditions Aggravated by Exposure Open sores and wounds of the skin. Individuals with known sensitivity to methacrylates, acrylates, or urethane dimethacrylate resin used in Dental restorative products. | | | | | |
| 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. | | | | | |
| Potential Environmental Effects Do not allow to enter sewers/ surface or ground water. | | | | | |
| NFPA Hazard Classification Ratings (Scale 0-4), Health = 1, Fire = 1, Reactivity = 0 | | | | | |

12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Water Hazard class1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water streams or sewage system.

13. Disposal Considerations

Regulations: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

Properties (Physical/Chemical) Affecting Disposal: Dispose of material as solid waste in a closed container.

14. Transport Information

| | | |
|---|----------------------------------|-------------------------------|
| Regulated for Shipping: No. Not Regulated | DOT Shipping Name: Not Regulated | Packing Group: Not Applicable |
| Do Changes in Quantities, packaging, or shipment method change product classification? No | DOT Hazard Class: Not Applicable | UN Number: Not Applicable |

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Globally Harmonized System of Classification and Labeling of Chemicals and the SDS contains all of the information required by the Canadian Controlled Products Regulations.

U.S. Federal Regulations: CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

U.S. State Regulations California Proposition 65: This product does not contain any chemicals, which are on the California Proposition 65 list.

International Regulations: Canadian Environmental Protection Act:

This product is a medical device and not subject to chemical notification requirements.

European Community Labeling: Not a dangerous preparation.

European Inventory of New and Existing Chemicals Substances (EINECS):

This product is a medical device and not subject to chemical notification requirements.

Other: Not Applicable

16. Other Information

To the best of our knowledge this product does not contain gluten, wheat grains, flaxseed, natural rubber, or natural latex.

All components are synthetically produced; none are derived from animal products.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific products features and shall not establish a legally valid contractual relationship.

The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.

**DENTSPLY/International
DENTSPLY/Caulk
Safety Data Sheet**

534398

1. Product and Company Identification

| | |
|--|---|
| Product Name PRIME & BOND[®]NT[™] Nano – Technology Dental Adhesive | SDS Code Number 534398 |
| Trade Name & Synonyms PRIME & BOND[®]NT[™] Nano – Technology Dental Adhesive | Date of Last Revision 02/02/11 |
| Manufacturer: DENTSPLY Caulk | Address 38 West Clarke Avenue Milford DE 19963-1805 http://www.caulk.com |
| Grades or Minor Variant Identities Unit Dose Package | Information Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time) |
| Product Use (for Canada) Dental Bonding Agent | Emergency Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time) |

2. Hazard(s) Identification



Warning
Highly Flammable Liquid and Vapour



Warning
Causes Skin Irritation

Keep away from heat/sparks/open flames / hot surfaces.
No smoking.

Keep container tightly closed.

Wear protective gloves/eye protection/face protection.

Ground / Bond container and receiving equipment.

Use explosion-proof electrical lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

IF ON SKIN or Hair: Remove / take off immediately all contaminated clothing. Rinse skin with water / shower.

In case of fire: Use CO₂ sand or extinguishing powder.

Wash hands thoroughly after handling.

Wear protective gloves

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get Medical Advice/attention.

Take off contaminated clothing and wash before reuse.

3. Composition/Information on Ingredients

| Hazardous Components | C.A.S. Number | Exposure Limits | % |
|---|---------------|-----------------|------|
| Acetone | 67-64-1 | 500 ppm | < 70 |
| Urethane dimethacrylate resin | 105883-40-7 | Not Established | < 20 |
| Dipentaerythritol pentaacrylate phosphate | 87699-25-0 | Not Established | < 10 |
| Polymerizable dimethacrylate resins | 2358-84-1 | Not Established | < 10 |
| Polymerizable trimethacrylate resins | 3290-92-4 | Not Established | < 10 |

4. First Aid Measures

| Routes of Exposure | First Aid Instructions | Immediate Medical Attention | Delayed Effects |
|--------------------|---|-----------------------------|-----------------|
| Eye | Rinse opened eye for several minutes under running water. If symptoms persist consult physician. | Not Applicable | Not Applicable |
| Skin | Immediately wash with soap and water and rinse thoroughly | Not Applicable | Not Applicable |
| Inhalation | Supply fresh air | Not Applicable | Not Applicable |
| Ingestion | If symptoms persist consult physician | Not Applicable | Not Applicable |
| Other | Not Applicable | Not Applicable | Not Applicable |

Note to Physicians (Treating, Testing and Monitoring): Treat symptomatically.

5. Fire and Explosion Data

| | | | |
|---|---|--|-----------------------|
| Flashpoint Method: -19°C (-2°F) Pensky-Marten Closed Cup | Flammable (Explosive) Limits in Air LEL: 2.5 vol. % UEL: 12.8 vol. % | Autoignition Temperature: 465°C (869°F) | Other: Not Applicable |
| Flame Propagation or Burning Rate (for Solids): Not Applicable | Properties Contributing to Fire Intensity: Not Applicable | Flammability Classification: 3 | |
| Extinguishing Media: CO ₂ , sand or extinguishing powder. | | Extinguishing Media to Avoid: Do not use water or water with full jet. | |
| Protection and Procedures for Firefighters: Firefighters should wear self-contained respiratory protective devices. | | | |
| Unusual Fire and Explosion Hazards: Formation of toxic gases is possible during heating or in case of fire. | | | |

6. Accidental Release Measures

| | | |
|---|--------------------------------------|--|
| Containment Techniques: Wear protective clothing. Absorb with liquid binding material (sand, vermiculite, diatomite, acid binders, universal binders or sawdust). Scoop up bulk material and place in a labeled plastic or metal container. | | |
| Spill/Leak Clean-up Procedures and Equipment: Wear protective clothing. Absorb with liquid binding material (sand, vermiculite, diatomite, acid binders, universal binders or sawdust). 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. Ensure adequate ventilation. | | |
| Evacuation Procedures: Not Applicable | Special Instructions: Not Applicable | Reporting Requirements: Not Applicable |

7. Handling and Storage

| |
|--|
| Handling Practices and Warnings: Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals. |
| Storage Practices and Warnings: Store in a well-ventilated place. Keep cool. Store only in the original package. Keep package tightly sealed. Protect from exposure to direct light. Store away from food and beverages. |

8. Exposure Control / Personal Protection



| | | | |
|---|--|--|---------------------|
| Ventilation: None required during normal intended use of this product | | Other Engineering Controls: Not Applicable | |
| Routes of Entry | Personal Protective Equipment (PPE) for Normal Use | | PPE for Emergencies |
| Eye/Face | Safety Glasses | | Not Applicable |
| Skin | The glove material has to be impermeable and resistant to the product. | | Not Applicable |
| Inhalation | Not required for normal volumes used in Dental office. | | Not Applicable |
| Body Protection | Protective work clothing | | Not Applicable |
| General Hygiene Considerations and Work Practices: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at end of work. Avoid contact with the eyes and skin. | | | |
| Protective Measures During Repair and Maintenance of Contaminated Equipment: Not Applicable | | | |
| Other Protective Measures and Equipment: Not Applicable | | | |

9. Physical and Chemical Characteristics

| | | | |
|---|---|---|--|
| Appearance: Light yellow liquid. | Odor: Acetone odor. | | |
| Normal Physical State: Low viscosity liquid | Melting Point: Not Determined Boiling Point: 54.2°C (129.6°F) | | |
| Specific Gravity: ~0.9 g/cm ³ | Solubility in Water: Partially | | |
| Vapor Pressure (mm Hg): 233 mbar @ 20°C | Vapor Density (AIR=1): Not Applicable | Vapor Pressure (mm Hg): 233 mbar @ 20°C | |
| Other: Not Applicable | | | |

10. Stability and Reactivity Data

| | |
|--|---|
| Incompatibility (Materials to Avoid): Visible light, high temperatures, strong acids, strong oxidizing agents. | |
| Hazardous Products Produced During Decomposition: Methacrylates, acrylates, carbon dioxide, carbon monoxide, peroxides and irritating gases. | |
| Hazardous Polymerization: <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur | Conditions to Avoid: High Temperatures, ignition sources. |
| Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable | Conditions to Avoid: High Temperatures, ignition sources. |

11. Toxicological Information

| Emergency Overview: Material is flammable. Material is irritating to eyes, respiratory system and skin. | | | | | |
|---|---|--|-----------------------------------|---|-----------------|
| Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data: Product is an irritant to skin and mucous membranes. The unpolymerized product may be an irritant to the skin in susceptible persons. On the eye the product has an irritating effect. Sensitization: Repeated or prolonged contact with the unpolymerized material may cause sensitization for persons allergic to acrylates and methacrylates. This product shows the following dangers according to internally approved calculation methods for composite materials: Irritant. | | | | | |
| Routes of Exposure | Signs and Symptoms | Single, Repeated, or Lifetime Exposure | Severity (Mild, Moderate, Severe) | Acute and Chronic Health Effect(s) | Target Organ(s) |
| Eye | Material can cause irritation. | Single | Moderate | Irritation and possible corneal damage | Yes |
| Skin | Material may be an irritant and may be absorbed through the skin. | Single & Repeated | Moderate | Irritation or possible allergic response. Severe allergic response may result | Yes |

| | | | | | |
|-------------------------------|--|-------------------|----------------|--|----------------|
| | | | | in breathing difficulties. | |
| Inhalation | Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. | Repeated | Moderate | Chronic inhalation may cause effects similar to those of acute inhalation. Causes respiratory tract irritation. May cause motor incoordination and speech abnormalities. | Yes |
| Ingestion | May cause irritation of the digestive tract. | Single & Repeated | Mild | Not Applicable | No |
| Other: Central nervous system | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |

Medical Conditions Aggravated by Exposure: Open sores and wounds of the skin. Individuals with known sensitivity to methacrylates, acrylates, or urethane dimethacrylate resin used in Dental restorative products.

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.

Potential Environmental Effects Do not allow to enter sewers/ surface or ground water.

NFPA Hazard Classification Ratings (Scale 0-4) Health = 1, Fire = 3, Reactivity = 0 Specific Hazard = None

12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Harmful to fish. Harmful to aquatic organisms.

13. Disposal Considerations

Regulations: Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of material as solid waste in a closed container. Dispose of in accordance with Federal, State and Local regulations

Properties (Physical/Chemical) Affecting Disposal: Dispose of material as solid waste in a closed container.

RCRA P-Series: None Listed, RCRA U-Series CAS#67-64-1: Waste Number U002 (Ignitable Waste)

14. Transport Information

| | | |
|--|--|--------------------------------|
| Regulated for Shipping: Yes | Proper Shipping Name: Acetone Solution | Packing Group: II |
| Do Changes in Quantities, packaging, or shipment method change product classification? Yes | Hazard Class: 3 | UN Identification Number: 1090 |
| Other: Not Applicable | | |



Flammable Liquid

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Globally Harmonized System of Classification and Labeling of Chemicals and the SDS contains all of the information required by the Canadian Controlled Products Regulations.

U.S. Federal Regulations: CERCLA 103 Reportable Quantity: RQ is 5,000 pounds (2268Kg) for CAS# 67-64-1 Acetone. Report spills required under federal, state and local regulations. Many states have more stringent release reporting requirements.

RCRA U-Series Hazardous Waste Code for CAS# 67-64-1 Acetone: U002

Section 313 Toxic Chemicals: This product does not contain any chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372).

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

U.S. State Regulations California Proposition 65: This product does not contain any chemicals, which are on the California Proposition 65 list.

Federal Regulations: The product has been classified and marked in accordance with directives on hazardous materials. Hazard Symbol: Flammable Water Hazard class I (Self-assessment): slightly hazardous for water. SARA Codes: CAS # 67-64-1 Acute, chronic, flammable.

International Regulations: Hazard Symbol: Flammable XI F Risk Phrases: R11 Highly Flammable, R36/37/38 Irritating to Eyes, respiratory system and skin. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R67 Vapors may cause drowsiness and dizziness. Safety Phrases: S9 Keep container in well-ventilated place. S16 Keep away from sources of ignition - No Smoking, S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S28 After contact with skin wash immediately with plenty of water, S61 Avoid release to the environment.

Other: Canada WHMIS for the acetone, classification of B2, D2B. Acetone CAS#67-64-1 is on the Canadian Ingredient Disclosure List.

16. Other Information

To the best of our knowledge this product does not contain gluten, wheat grains, flaxseed, natural rubber, or natural latex.

All components are synthetically produced; none are derived from animal products.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific products features and shall not establish a legally valid contractual relationship.

The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.

**DENTSPLY/International
DENTSPLY/Caulk
Safety Data Sheet**

546899

1. Product and Company Identification

| | |
|--|--|
| Product Name CAULK [®] 50% Tooth CONDITIONER LIQUID CAULK [®] 34% Tooth CONDITIONER GEL | MSDS Code Number 546899 |
| Trade Name & Synonyms CAULK [®] 50% Tooth CONDITIONER LIQUID CAULK [®] 34% Tooth CONDITIONER GEL | Date of Last Revision 11/11/10 |
| Manufacturer DENTSPLY/Caulk | Address 38 West Clarke Avenue Milford DE 19963-1805 http://www.caulk.com , http://www.dentsply.com |
| Grades or Minor Variant Identities Bottles and Syringes | Information Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time) |
| Product Use (for Canada) Not Applicable | Emergency Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time) |

2. Hazard(s) Identification



Danger

Causes severe skin burns and eye damage

Do not breathe in dust or mist.

Wash hands thoroughly after handling.

Wear protective gloves.

If SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Remove immediately all contaminated clothing. Rinse skin with water.

If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON Center or physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

Store locked up.

Dispose of contents/container in accordance with local regulations.

3. Composition of Ingredients – Tooth Conditioner Liquid

| Hazardous Components | C.A.S. Number | Exposure Limits | % |
|----------------------|---------------|---------------------|----|
| Phosphoric Acid | 7664-38-2 | 1 mg/M ³ | 50 |

3. Composition of Ingredients – Tooth Conditioner Gel

| Hazardous Components | C.A.S. Number | Exposure Limits | % |
|----------------------|---------------|---------------------|----|
| Phosphoric Acid | 7664-38-2 | 1 mg/M ³ | 34 |

Other Information: Blue colorant is a fluorescent organic dye.

4. First Aid Measures

| Routes of Exposure | First Aid Instructions | Immediate Medical Attention | Delayed Effects |
|--------------------|---|-----------------------------|-----------------|
| Eye | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist consult physician. | Not Applicable | Not Applicable |
| Skin | IF ON SKIN: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If symptoms persist consult physician. | Not Applicable | Not Applicable |
| Inhalation | IF INHALED: Remove victim to fresh air and keep at a rest position | Not Applicable | Not Applicable |

| | | | |
|---|---|----------------|----------------|
| | comfortable for breathing. Immediately call a poison center or if symptoms persist, consult physician. | | |
| Ingestion | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If symptoms persist consult physician. | Not Applicable | Not Applicable |
| Other | Not Applicable | Not Applicable | Not Applicable |
| Note to Physicians (Treating, Testing and Monitoring): Treat symptomatically. | | | |

5. Fire and Explosion Data

| | | | |
|---|--|--|-----------------------|
| Flashpoint Method: Not Applicable | Flammable (Explosive) Limits in Air LEL: Not Established UEL: Not Established | Autoignition Temperature: Not Applicable | Other: Not Applicable |
| Flame Propagation or Burning Rate (for Solids): Not Applicable | Properties Contributing to Fire Intensity: Not Applicable | Flammability Classification: Not Applicable | |
| Extinguishing Media: Use extinguishing media suitable for surrounding area. | | Extinguishing Media to Avoid: Water with full jet. | |
| Protection and Procedures for Firefighters: Firefighters should wear self-contained respiratory protective devices. | | | |
| Unusual Fire and Explosion Hazards: Formation of toxic gases is possible during heating or in case of fire. | | | |

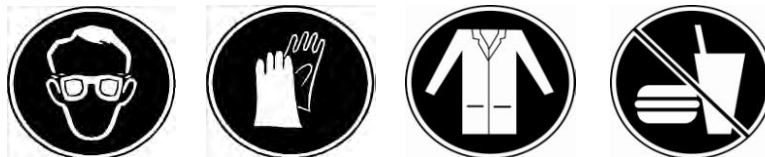
6. Accidental Release Measures

| | | |
|---|--------------------------------------|--|
| Containment Techniques: For Liquid: Absorb with liquid binding material (sand, vermiculite, diatomite, acid binders, universal binders or sawdust). For Gel, since material is a paste, scoop up bulk material and place in a suitable waste container. | | |
| Spill/Leak Clean-up Procedures and Equipment: Absorb with liquid binding material (sand, vermiculite, diatomite, acid binders, universal binders or sawdust). Scoop up bulk material and place in a suitable waste container. | | |
| Evacuation Procedures: Not Applicable | Special Instructions: Not Applicable | Reporting Requirements: Not Applicable |

7. Handling and Storage

| |
|---|
| Handling Practices and Warnings: Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals. |
| Storage Practices and Warnings: Store only in the original package. Keep package tightly sealed. Store in a dry area. Store away from food and beverages. |

8. Exposure Control / Personal Protection



| | | |
|---|--|--|
| Ventilation: None required during normal intended use of this product | | Other Engineering Controls: Not Applicable |
| Routes of Entry | Personal Protective Equipment (PPE) for Normal Use | |
| Eye/Face | Safety Glasses | |
| Skin | The glove material has to be impermeable and resistant to the product. | |
| Inhalation | Not required for normal volumes used in Dental office. | |
| Body Protection | Protective work clothing | |
| General Hygiene Considerations and Work Practices: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at end of work. Avoid contact with the eyes and skin. | | |
| Protective Measures During Repair and Maintenance of Contaminated Equipment: Not Applicable | | |
| Other Protective Measures and Equipment: Not Applicable | | |

9. Physical and Chemical Characteristics

| | | |
|---|---------------------------------------|--|
| Appearance: Liquid is clear. Gel is blue colored paste. | Odor: Acrid. | |
| Normal Physical State: Liquid, Gel is a paste. | Melting Point: Not Applicable | |
| Specific Gravity: 1.3 g/cm ³ | Solubility in Water: Not Soluble | pH: < 2 |
| Vapor Pressure (mm Hg): Not Established | Vapor Density (AIR=1): Not Applicable | Evaporation Rate (Butyl Acetate =1) Not Applicable |

10. Stability and Reactivity Data

| | | |
|--|---|--|
| Incompatibility (Materials to Avoid): Not Applicable | | |
| Hazardous Products Produced During Decomposition: Not Applicable. | | |
| Hazardous Polymerization: <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur | Conditions to Avoid: High Temperatures, ignition sources. | |
| Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable | Conditions to Avoid: High Temperatures, ignition sources. | |

11. Toxicological Information

| | | | | | |
|---|--------------------|--|-----------------------------------|------------------------------------|-----------------|
| Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data: Material is a corrosive acid and as such is irritating to skin and mucous membranes. | | | | | |
| Emergency Overview: Material is corrosive. | | | | | |
| Routes of Exposure | Signs and Symptoms | Single, Repeated, or Lifetime Exposure | Severity (Mild, Moderate, Severe) | Acute and Chronic Health Effect(s) | Target Organ(s) |

| | | | | | |
|---|---|-------------------|---|--|----------------|
| Eye | Material is corrosive and may cause irritation. | Single & Repeated | Severe | Irritation and possible corneal damage due to the corrosive nature of product. | Not Applicable |
| Skin | Material is corrosive and may cause irritation. | Single & Repeated | Moderate to severe depending on contact time. | Irritation due to the corrosive nature of the product. | Not Applicable |
| Inhalation | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Ingestion | Material is corrosive and may cause irritation. | Not Applicable | Moderate | Irritation due to the corrosive nature of the product. | Not Applicable |
| Other | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Medical Conditions Aggravated by Exposure: Open sores and wounds of the skin. | | | | | |
| 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. | | | | | |
| Potential Environmental Effects Do not allow to enter sewers/ surface or ground water. | | | | | |
| NFPA Hazard Classification Ratings (Scale 0-4), Health = 3, Fire = 0, Reactivity = 0 Specific Hazard = Corrosive / Acid | | | | | |

12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Water Hazard class1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water streams or sewage system. Toxic to fish. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

13. Disposal Considerations

Regulations: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 Dispose of material as solid waste in a closed container. Dispose of in accordance with Federal, State and Local regulations
 Properties (Physical/Chemical) Affecting Disposal: Dispose of material as solid waste in a closed container.



14. Transport Information

| | | |
|--|--|--------------------------------|
| Regulated for Shipping: Yes | DOT Shipping Name: Corrosive Liquid, n.o.s. (contains Phosphoric Acid) | Packing Group: II |
| Do Changes in Quantities, packaging, or shipment method change product classification? Yes | Hazard Class: 8 | UN Identification Number: 1760 |

15. Regulatory Information

| |
|--|
| This product has been classified in accordance with the hazard criteria of the Globally Harmonized System of Classification and Labeling of Chemicals and the SDS contains all of the information required by the Canadian Controlled Products Regulations. |
| U.S. Federal Regulations: CERCLA 103 Reportable Quantity: CAS# 7664-38-2 Phosphoric Acid 5000 pounds (2268Kg) Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations |
| Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None |
| Section 302 Extremely Hazardous Substances (TPQ): None |
| EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory. |
| U.S. State Regulations California Proposition 65: This product does not contain any chemicals, which are on the California Proposition 65 list. |
| Canada WHMIS, Workplace Hazardous Materials Information System: This product is not a controlled product. |
| International Regulations: Canadian Environmental Protection Act: This product is a medical device and not subject to chemical notification requirements. |
| European Community Labeling: Not a dangerous preparation. These R and S phrases apply to base and catalyst: R36/38 Irritating to eyes and skin. R51/53 Toxic to aquatic organisms, may cause long-term effects in the environment. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with plenty of water. S37 Wear suitable gloves. S57 Use appropriate container to avoid environmental contamination. S60 This material and its container must be disposed of as hazardous waste. These R and S phrases apply to catalyst: R41 Risk of serious damage to eyes. R50/53 Very toxic to aquatic organisms, may cause long-term effects in the environment. S24 Avoid contact with skin. |
| European Inventory of New and Existing Chemicals Substances (EINECS): This product is a medical device and not subject to chemical notification requirements. Phosphoric Acid is known as EINECS #: 231-633-2 and CAS# 7664-38-2. |
| Other: Not Applicable. |

16. Other Information

To the best of our knowledge this product does not contain gluten, wheat grains, flaxseed, natural rubber, or natural latex.
 All components are synthetically produced; none are derived from animal products.
 This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific products features and shall not establish a legally valid contractual relationship.
 The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.

**DENTSPLY/International
DENTSPLY/Caulk
Safety Data Sheet**

548899

1. Identification

| | |
|--|---|
| Product Name Esthet•X[®] flow Liquid Micro Hybrid Restorative | SDS Code Number 548899 |
| Substance Identity Esthet•X[®] flow Liquid Micro Hybrid Restorative | Date of Last Revision 05/16/13 |
| Manufacturer: DENTSPLY Caulk | Address 38 West Clarke Avenue Milford DE 19963-1805 http://www.caulk.com http://www.dentsply.com |
| Grades or Minor Variant Identities Not Applicable | Information Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time) |
| Product Use (for Canada) Light Curing Composite/Dental Filling Material | Emergency Telephone Number (302) 422-4511 (8:00 AM – 4:30 PM Eastern Time) |

2. Hazard(s) Identification



WARNING

CAUSES SKIN IRRITATION

Wash hands thoroughly after handling.

Wear protective gloves.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get Medical Advice/attention.

Take off contaminated clothing and wash before reuse.

3. Composition/Information on Ingredients

| Hazardous Components | C.A.S. Number | Exposure Limits | % |
|--|---------------------|----------------------|-----------|
| Silica (Amorphous) | 67762-90-7 | 3 mg/m ³ | < than 5 |
| Barium boron fluoro alumino silicate glass | 65997-18-4 | 10 mg/m ³ | < than 70 |
| Urethane modified Bis-GMA dimethacrylate | 126646-17-1 | N.E. | < than 10 |
| Bis-GMA | 1565-94-2 | N.E. | < than 20 |
| Polymerizable dimethacrylate resins | 24448-20-2/109-16-0 | N.E. | < than 25 |

Other Information: Colorants are inorganic iron oxides and titanium dioxide.

4. First Aid Measures

| Routes of Exposure | First Aid Instructions | Immediate Medical Attention | Delayed Effects |
|--------------------|--|-----------------------------|-----------------|
| Eye | Rinse opened eye for several minutes under running water. If symptoms persist consult physician | Not Applicable | Not Applicable |
| Skin | Immediately wash with soap and water and rinse thoroughly | Not Applicable | Not Applicable |
| Inhalation | Not Applicable | Not Applicable | Not Applicable |
| Ingestion | Not Applicable | Not Applicable | Not Applicable |
| Mucosa | Rinse tissue for several minutes under running water. If symptoms persist consult physician | Not Applicable | Not Applicable |

Note to Physicians (Treating, Testing and Monitoring): Treat symptomatically.

5. Fire Fighting Measures

| | | | |
|--|---|--|-----------------------|
| Flame Propagation or Burning Rate (for Solids) Not Applicable | Properties Contributing to Fire Intensity Not Applicable | Flammability Classification: Not Applicable | Other: Not Applicable |
| Extinguishing Media: CO ₂ , extinguishing powder, foam carbon dioxide or water spray. Fight larger fires with water spray or alcohol resistant foam. | | Extinguishing Media to Avoid: Water with full jet. | |
| Protection and Procedures for Firefighters: Firefighters should wear self-contained respiratory protective devices. | | | |
| Unusual Fire and Explosion Hazards: Formation of toxic, irritating gases is possible from the decomposition of the dimethacrylate resins. Product does not present an explosion hazard. | | | |

6. Accidental Release Measures

| | | |
|--|--------------------------------------|--|
| Containment Techniques: Material is a paste and as such will not flow. | | |
| Spill/Leak Clean-up Procedures and Equipment: Wear protective clothing and 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. Ensure adequate ventilation. | | |
| Evacuation Procedures: Not Applicable | Special Instructions: Not Applicable | Reporting Requirements: Not Applicable |

7. Handling and Storage

| |
|---|
| Handling Practices and Warnings: Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals. |
| Storage Practices and Warnings: Store only in the original package. Keep package tightly sealed. Store in a dry area. Protect from exposure to direct light. Store away from food and beverages. |

8. Exposure Control / Personal Protection



| Occupational Exposure Limits: Not Applicable | | |
|--|--|---|
| Engineering Controls: Not Applicable | | |
| Individual Protection Measures | Personal Protective Equipment for Normal Use | Personal Protective Equipment for Emergencies |
| Eye/Face | Safety Glasses | Not Applicable |
| Skin | The glove material has to be impermeable and resistant to the product. | Not Applicable |
| Inhalation | Not Required | Not Applicable |
| Body Protection | Protective work clothing | Not Applicable |

9. Physical and Chemical Characteristics

| | | | |
|---|--|---|--|
| Appearance: Various shades of viscous paste. | | Odor: Characteristic sweet acrylic ester odor. | |
| Normal Physical State: Very High Viscosity Liquid (Paste) | | Melting Point: Not Applicable | |
| Specific Gravity: 1.8 g/cm ³ | Solubility in Water: Not soluble | pH: Not Applicable | |
| Vapor Pressure (mm Hg): Not Applicable | Vapor Density (AIR=1): Not Applicable | Evaporation Rate (Butyl Acetate =1): Not Applicable | |
| Flashpoint Method: Not Applicable | Flammable (Explosive) Limits in Air LEL: Not Applicable UEL: Not Applicable | Autoignition Temperature: Not Applicable, Product will not autoignite. | |
| Other: Not Applicable | | | |

10. Stability and Reactivity Data

| | | |
|--|---------------------------------|--|
| Incompatibility (Materials to Avoid): Strong Oxidizing materials. | | |
| Hazardous Products Produced During Decomposition: No dangerous decomposition products known if used according to Directions for Use. | | |
| Hazardous Polymerization: <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> May Not Occur | Conditions to Avoid: None known | |
| Stability? <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable | Conditions to Avoid: None known | |

11. Toxicological Information

| Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data: Product is an irritant to the skin and mucous membranes. The unpolymerized product may be an irritant to the skin in susceptible persons. On the eye the product has an irritating effect. Sensitization: Repeated or prolonged contact with the unpolymerized material may cause sensitization for persons allergic to acrylates and methacrylates. This product shows the following dangers according to internally approved calculation methods for composite materials: Irritant. | | | | | |
|---|---|--|-----------------------------------|--|-----------------|
| Emergency Overview Material is irritating to eyes, respiratory system and skin. | | | | | |
| Routes of Exposure | Signs and Symptoms | Single, Repeated, or Lifetime Exposure | Severity (Mild, Moderate, Severe) | Acute and Chronic Health Effect(s) | Target Organ(s) |
| Eye | Material can cause irritation. | Single | Moderate | Irritation and possible corneal damage | Not Applicable |
| Skin | Material may be an irritant | Single & Repeated | Moderate | Irritation or possible allergic response. Severe allergic response may result in breathing difficulties. | Not Applicable |
| Inhalation | Not Applicable | Not Applicable | Not Applicable | Not Applicable | Not Applicable |
| Ingestion | Material is not harmful if swallowed using clinically relevant quantities | Not Applicable | Mild | Not Applicable | Not Applicable |
| Mucosa | Material can cause irritation. | Single | Mild | Inflammation of the mucosa | Not Applicable |
| Medical Conditions Aggravated by Exposure Open sores and wounds of the skin. Individuals with known sensitivity to methacrylates, acrylates, or urethane dimethacrylate resin used in Dental restorative products. | | | | | |
| 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. | | | | | |
| Potential Environmental Effects Do not allow to enter sewers/ surface or ground water. | | | | | |
| NFPA Hazard Classification Ratings (Scale 0-4), Health = 1, Fire = 0, Reactivity = 0 | | | | | |

12. Ecological Information

Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Water Hazard class1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water streams or sewage system.

13. Disposal Considerations

Regulations: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

Properties (Physical/Chemical) Affecting Disposal: Dispose of material as solid waste in a closed container.

14. Transport Information

| | | |
|---|----------------------------------|-------------------------------|
| Regulated for Shipping: No. Not Regulated | DOT Shipping Name: Not Regulated | Packing Group: Not Applicable |
| Do Changes in Quantities, packaging, or shipment method change product classification? No | DOT Hazard Class: Not Applicable | UN Number: Not Applicable |

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Globally Harmonized System of Classification and Labeling of Chemicals and the SDS contains all of the information required by the Canadian Controlled Products Regulations.

U.S. Federal Regulations: CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

U.S. State Regulations California Proposition 65: This product does not contain any chemicals, which are on the California Proposition 65 list.

International Regulations: Canadian Environmental Protection Act:

This product is a medical device and not subject to chemical notification requirements.

European Community Labeling: Not a dangerous preparation.

European Inventory of New and Existing Chemicals Substances (EINECS):

This product is a medical device and not subject to chemical notification requirements.

Other: Not Applicable

16. Other Information

To the best of our knowledge this product does not contain gluten, wheat grains, flaxseed, natural rubber, or natural latex.

All components are synthetically produced; none are derived from animal products.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific products features and shall not establish a legally valid contractual relationship.

The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.

ACTIO MSDS ID: 956705

View Section : 12345678910111213141516

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION 530699

Product Name: EsthetX HD

Synonyms: EsthetX« HD
High Definition Micro Matrix Restorative
CAS Number: Not Applicable
Manufacturer MSDS.: 530699

Manufacturer Name: Dentsply/Caulk

Address: 38 West Clarke Avenue
Milford DE 19963-1805

Emergency Telephone Number:
(302) 422-4511 (8:00 AM - 4:30 PM Eastern Time)

<http://www.caulk.com>

General Use: (For Canada): Light Curing Composite/Dental Filling Material

Business Phone: (302) 422-4511
Hours Of Operation: (8:00 AM - 4:30 PM Eastern Time)
Revision Date: 06/03/08
Trade Names: EsthetX« HD
High Definition Micro Matrix Restorative
NFPA Hazard Classification Ratings (Scale 0-4)

DENTSPLY/International

Chemical Name: Dimethacrylate Resins

Grades or Minor Variant Identities:
Compules« and EasyoTwist Syringe
NFPA

1
10
0

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SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS530699

Ingredient NameCAS#Ingredient Percent

Hydrophobic Amorphous Fumed Silica 68611-44-9< than 5%

Hazardous:Yes

EC Index Number:1

Other Exposure Guidelines:10 mg/m3

Silica (Amorphous) 67762-90-7< than 5%

Hazardous:Yes

EC Index Number:1

Other Exposure Guidelines:3 mg/m3

Barium boron fluoro alumino silicate glass 65997-18-4< than 30%

Hazardous:Yes

EC Index Number:1

Other Exposure Guidelines:10 mg/m3

Barium boron alumino silicate glass 65997-17-3< than 50%

Hazardous:Yes

EC Index Number:1

Other Exposure Guidelines:10 mg/m3

Urethane modified Bis-GMA dimethacrylate 126646-17-1< than 10%

Hazardous:Yes

EC Index Number:1

Other Exposure Guidelines:Not Established

Polymerizable dimethacrylate resins 109-16-0

Hazardous:Yes

EC Index Number:1

Polymerizable dimethacrylate resins 24448-20-2

Hazardous:Yes

EC Index Number:1

Composition/Information:Hazardous Components: Polymerizable dimethacrylate resins
C.A.S. Number: 24448-20-2/109-16-0
Exposure Limits: Not Established
Total % : < than 20
Other Information: Colorants are inorganic iron oxides and titanium dioxide.

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SECTION 3 : HAZARDS IDENTIFICATION530699

Emergency Overview:Material is irritating to eyes, respiratory system and skin.

Applies to All Ingredients :

Route of Exposure:Eye, Skin, Inhalation, Ingestion

Potential Health Effects:Acute:

Other: Not Applicable

Eye Contact:Acute: Irritation and possible corneal damage

Skin Contact:Acute: Irritation or possible allergic response. Severe allergic response may result in breathing difficulties.

Inhalation:Acute: Not Applicable

Ingestion:Acute: Not Applicable

Chronic Health Effects:Other: Not Applicable

Chronic Eye Contact:Irritation and possible corneal damage

Chronic Skin Contact:Irritation or possible allergic response.

Severe allergic response may result in breathing difficulties.

Chronic Inhalation:Not Applicable

Chronic Ingestion:Not Applicable

Carcinogenicity: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.

NTP Designation:Not listed

IARC Designation:Monographs: Not listed

Target Organs:Eye: Not Applicable

Skin: Not Applicable

Inhalation: Not Applicable

Ingestion: Not Applicable

Other: Not Applicable

Signs/Symptoms:Eye: Material can cause irritation.

Skin: Material may be an irritant

Inhalation: Not Applicable

Ingestion: Material is probably not harmful if swallowed

Other: Not Applicable

Aggravation of Pre-Existing Conditions:Open sores and wounds of the

skin. Individuals with known sensitivity to methacrylates, acrylates, or urethane dimethacrylate resin used in Dental restorative products.

Single, Repeated, or Lifetime Exposure:

Eye: Single

Skin: Single & Repeated

Inhalation: Not Applicable

Ingestion: Not Applicable

Other: Not Applicable

Severity (Mild, Moderate, Severe):

Eye: Moderate

Skin: Moderate

Inhalation: Not Applicable

Ingestion: Not Applicable

Other: Not Applicable

Potential Environmental Effects Do not allow to enter sewers/surface or ground water.

NFPA Hazard Classification Ratings (Scale 0-4):

Health = 1

Fire = 1

Reactivity = 0

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SECTION 4 : FIRST AID MEASURES530699

Eye Contact:First Aid Instructions: Rinse opened eye for several minutes under running water. If symptoms persist consult physician

Immediate Medical Attention: Not Applicable

Delayed Effects: Not Applicable

Skin Contact:First Aid Instructions: Immediately wash with soap and water and rinse thoroughly

Immediate Medical Attention: Not Applicable

Delayed Effects: Not Applicable

Inhalation:First Aid Instructions: Supply fresh air, consult physician if symptoms persist

Immediate Medical Attention: Not Applicable

Delayed Effects: Not Applicable

Ingestion:First Aid Instructions: If symptoms persist consult physician

Immediate Medical Attention: Not Applicable

Delayed Effects: Not Applicable

Note to Physicians:(Treating, Testing and Monitoring): Not Applicable

Other First Aid:First Aid Instructions: Not Applicable

Immediate Medical Attention: Not Applicable

Delayed Effects: Not Applicable

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SECTION 5 : FIRE FIGHTING MEASURES530699

Flash Point Method:Not Applicable

Upper Flammable or Explosive Limit:In Air: Not Applicable
Lower Flammable or Explosive Limit:In Air: Not Applicable
Auto Ignition Temperature:Not Applicable Product will not autoignite.
Flammability Class:Not Applicable
Extinguishing Media:CO2, extinguishing powder, foam carbon dioxide or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable Media:Water with full jet.
Flame Propagation in Air:Flame Propagation or Burning Rate (for Solids): Not Applicable
Fire Fighting Instructions:For Firefighters: Firefighters should wear self-contained respiratory protective devices.
Unusual Fire Hazards:Formation of toxic, irritating gases is possible from the decomposition of the dimethacrylate resins. Product does not present an explosion hazard.
Other: Not Applicable

Properties Contributing to Fire Intensity: Not Applicable

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SECTION 6 : ACCIDENTAL RELEASE MEASURES530699

Spill Cleanup Measures:Containment Techniques: Material is a paste and as such will not flow.

Spill/Leak Clean-up Procedures and Equipment: Wear protective clothing and 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. Ensure adequate ventilation.

Evacuation Procedures: Not Applicable

Special Instructions: Not Applicable

Reporting Requirements: Not Applicable

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SECTION 7 : HANDLING and STORAGE530699

Handling:Handling Practices and Warnings: Product is intended for dental use only. Handling of this product should be by trained dental healthcare professionals only. Observe normal care for working with chemicals.

Storage:Storage Practices and Warnings: Store only in the original package. Keep package tightly sealed. Store in a dry area. Protect from exposure to direct light. Store away from food and beverages.

Hygiene Practices:Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at end of work. Avoid contact with the eyes and skin.

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SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION530699

Ventilation System:None required during normal intended use of this product
Skin Protection Description:The glove material has to be impermeable and resistant to the product.
Eye/Face Protection:Safety Glasses
Protective Clothing/Body Protection:Body Protection:
Protective work clothing
Respiratory Protection:Inhalation: Not Required
Other Protective:Equipment: Not Applicable
Emergency Skin Protection:Not Applicable
Emergency Eye/Face Protection:Not Applicable
Emergency Clothing/Body Protection:Body Protection: Not Applicable
Emergency Respiratory Protection:Inhalation: Not Applicable
General Hygiene Considerations and Work Practices: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at end of work. Avoid contact with the eyes and skin.

Protective Measures During Repair and Maintenance of Contaminated Equipment: Not Applicable

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SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES530699

Physical State/Appearance:Various shades of viscous paste.
Odor:Characteristic sweet acrylic ester odor.
Physical State:Normal Physical State: Very High Viscosity Liquid (Paste)
pH:Not Applicable
Vapor Pressure:(mm Hg): Not Applicable
Vapor Density:(AIR = 1): Not Applicable
Melting Point:Not Applicable
Solubility:In Water: Not soluble
Specific Gravity:2.1 g/cm³
Evaporation Point:(Butyl Acetate = 1): Not Applicable
Other:Not Applicable

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SECTION 10 : STABILITY and REACTIVITY530699

Chemical Stability:Stable.
Conditions to Avoid:None known.
Incompatibilities with Other Materials:(Materials to Avoid) Strong Oxidizing materials.
Hazardous Polymerization:May Not Occur
Conditions to Avoid: None known

Hazardous Decomposition Products: No dangerous decomposition products known if used according to Directions for Use.

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SECTION 11 : TOXICOLOGICAL INFORMATION530699

Toxicological Paragraph: Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data: Product is an irritant to the skin and mucous membranes. The unpolymerized product may be an irritant to the skin in susceptible persons. On the eye the product has an irritating effect. Sensitization: Repeated or prolonged contact with the unpolymerized material may cause sensitization for persons allergic to acrylates and methacrylates. This product shows the following dangers according to internally approved calculation methods for composite materials: Irritant.

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SECTION 12 : ECOLOGICAL INFORMATION530699

Ecological Paragraph: Toxicity Data, Environmental Fate, Physical/Chemical Data, or other Data Supporting Environmental Hazard Statements: Water Hazard class1 (Self-assessment): Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water streams or sewage system.

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SECTION 13 : DISPOSAL CONSIDERATIONS530699

Waste Disposal: Regulations: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Dispose of material as solid waste in a closed container.
Dispose of in accordance with Federal, State and Local regulations
Properties (Physical/Chemical) Affecting Disposal: Dispose of material as solid waste in a closed container.

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SECTION 14 : TRANSPORT INFORMATION530699

DOT Shipping Information: Regulated for Shipping: No. Not Regulated

Do Changes in Quantities, packaging, or shipment method change product classification: No

Other: Not Applicable

DOT Shipping Name:Regul and for Shipping: No. Not Regulated

DOT UN Number:Not Applicable

DOT Hazard Class:Not Applicable

DOT Packing Group:Not Applicable

DOT Subpart E Labeling Requirement:(49CFR172.101): Not Applicable

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SECTION 15 : REGULATORY INFORMATION530699

Applies to all ingredients:

TSCA 8(b): Inventory Status:EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

CERCLA Section 103:U.S. Federal Regulations: CERCLA 103

Reportable Quantity: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations

Section 302 Extremely Hazardous Substances (TPQ):None

Section 313 Toxic Release Form:Section 313 Toxic Chemicals:

This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

State:U.S. State Regulations California Proposition 65: This product does not contain any chemicals, which are on the California Proposition 65 list.

Canada WHMIS:International Regulations: Canadian Environmental Protection Act:

This product is a medical device and not subject to chemical notification requirements.

European Community Chemical Inventory Status:European Community Labeling: Not a dangerous preparation.

European Inventory of New and Existing Chemicals Substances (EINECS):

This product is a medical device and not subject to chemical notification requirements.

Other: Not Applicable

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SECTION 16 : ADDITIONAL INFORMATION530699

NFPA:

Health:1

Fire Hazard:1

Reactivity:0

MSDS Revision Date:06/03/08

Disclaimer:

To the best of our knowledge this product does not contain gluten, wheat grains, flaxseed, natural rubber, or natural latex. All components are synthetically produced; none are derived from animal products.

NFPA Hazard Classification Ratings (Scale 0-4)

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