

## **SAFETY DATA SHEETS**

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

072361723

**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).**

072361707 072361715 072361731 072361749 072361756 072361764

Other Clothing and Equipment: Face Mask  
Ventilation: None required, local exhaust recommended

### SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: Negligible  
Vapor Density: >1  
Evaporation Rate: <1  
Solubility in Water: Slight  
Boiling Point: ND  
Specific Gravity: >1  
Appearance and Odor: Tooth colored paste, slight odor

### SECTION X: STABILITY AND REACTIVITY

Stable (x) Unstable ( )  
Conditions to Avoid: Heat in excess of 25°C, direct sunlight or intense light.  
Incompatibility: Free radical initiators, oxidizing agents  
Hazardous Decomposition Products: Acrylic smoke  
Hazardous Polymerization: May occur ( ) Will not occur (x)

### SECTION XI: TOXICOLOGICAL INFORMATION

Carcinogens: None known.

### SECTION XII: ECOLOGICAL INFORMATION

This material contains hazardous components. Allow materials to cure prior to disposal.

### SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of safely in accordance with local, state, and federal regulations.

### SECTION XIV: TRANSPORT INFORMATION

Stable under normal conditions of use, transportation, and storage.

### SECTION XV: REGULATORY INFORMATION

510k #: K102753

### SECTION XVI: OTHER INFORMATION

None

The data and information given in this msds are accurate on the date of preparation. It does not indicate any warranty or representation. We disclaim all liability relating to use of this material since this is beyond our control.



**DANVILLE**  
MATERIALS

3420 FOSTORIA WAY STE. A-200 SAN RAMON, CALIFORNIA 94583 USA  
PHONE 800/827-7940 FAX 925/973-0764

93280 Rev A

# TurboTemp™ 3



TurboTemp™ 3 is a syringeable bis-acryl composite for chairside provisional restorations. TurboTemp 3 is fast and accurate, especially when used in conjunction with a quality vinyl polysiloxane impression material such as Danville's Star VPS. TurboTemp 3 is available in 6 shades: A1, A2, A3, A3.5, B1, and Bleach BL. All are delivered in 76g (50mL) cartridges designed to fit on a 10:1 style automix gun. Ten waste saver tips are included per kit.

### INDICATIONS

Fabrication of provisional crowns, bridges, inlays, onlays, partial crowns and veneers.

### PRECAUTIONS

1. TurboTemp 3 contains methacrylate monomers which can cause allergic reactions in susceptible individuals. Avoid contact between uncured product and skin, oral soft tissues or eyes. Do not take internally. Consult MSDS for more information.
2. Use as directed. This product is intended for use by dental practitioners only. Wear appropriate personal protective equipment.
3. TurboTemp 3 will adhesively bond to most dental adhesives and the air inhibited layer of fresh resin-based restoratives, making provisional removal for trimming difficult.
4. Contact with Eugenol containing products may interfere with the hardening of TurboTemp 3.
5. TurboTemp 3 **MUST BE REMOVED FROM THE PATIENT PRIOR TO 30 DAYS.**

### TIMING

0:00-0:40 – Insertion in the mouth  
2:00-2:30 – Removal from the mouth (if removed)  
2:30-4:30 – Trimming/Finishing  
5:00 – Final Hardness

### RECOMMENDED METHOD

**PRELIMINARY IMPRESSION:** Prior to tooth preparation, place some flexible vinyl polysiloxane (First Quarter™ Monophase recommended) on a TRIPLE TRAY\* and make a closed bite impression. Stiff heavy body materials (such as those for bite registration) must be avoided, as once removed, they will not go back well into undercuts. Alginate is an alternative, although less satisfactory.

**PREP AND FINAL IMPRESSION:** Prepare subject tooth and complete final impression. To preclude bonding to TurboTemp 3, cover any composite buildup with a separating agent.

**IMMEDIATELY PRIOR TO USE:** Remove cap and eject a pea size quantity of material out of the bare cartridge end. Eject slowly until a steady flow exudes from both compartments. Wipe off the end (without cross mixing) and install the mixing tip.

\*Not a Danville trademark.

### FABRICATE TEMPORARY:

#### I. CEMENTATION METHOD:

1. Discard first pea size of mixed material and inject TurboTemp 3 into the prep areas of the preliminary impression (using care to avoid trapping air bubbles) and have patient close on the tray.
2. Remove the tray when TurboTemp 3 has reached its elastic phase (approx. 2 minutes after injection). The provisional restoration will be retained in the tray and be slightly flexible. Remove excess material around the margins while it is still in the tray using an amalgam carver or #15

3. Immediately reset the tray and restoration in the mouth until completion of cure (approx. 5 minutes after injection).
4. Remove the provisional restoration from the mouth and complete trimming and finishing with a diamond. Cement into place using a non-eugenol temporary cement.
5. Porosity can be filled with flowable composite and light cured.

Note: If undercuts exist, such as inlay or onlay, brush non-eugenol cement (such as Nogenol) into the undercuts and let it set before placing the TurboTemp 3.

## 2. SHRINK FIT METHODOD:

1. Discard first pea size of mixed material and inject TurboTemp 3 into the prep areas of the preliminary impression (using care to avoid trapping air bubbles) and have patient close on the tray.
2. Remove the tray when TurboTemp 3 has reached its trimming/finishing phase. Ideally the tray comes off the provisional restoration, leaving it firmly seated on the teeth. If not, immediately reseat the restoration on the teeth.
3. Trim off the flash with Danville's small Retract instrument, moving it vertically to cleave the flash off the margins. Alternatively use a #15 scalpel blade to trim off flash. (approx. 3 minutes after injection).
4. Porosity can be filled with flowable composite and light cured.
5. For removal, the restoration will need to be split with a diamond and pried off.

## TURBOTEMP 3 BRIDGE FABRICATION:

Three units is the recommended maximum span. To add strength the proximals of posteriors, the connector areas should be modified to add bulk, prior to taking the preliminary impression. In the posterior, both buccal and lingual can be modified. In the anterior, most of the modification should be done on the lingual to preserve esthetics. The preferred block-out material is Ultradent Blue Blockout, but soft wax can also be used.

**ADDITIONAL REINFORCEMENT:** Wet Ribbond™ (or some other fiber) with E-Bond™, or Accolade™ flowable composite. Place the wetted fiber into the occlusal aspect of the preliminary impression. Using TurboTemp 3, infuse the fiber reinforcement and fill the remainder of the impression. Seat the filled preliminary impression in the mouth. Remove at approximately 2 minutes after injection. The reinforced provisional bridge will remain in the preliminary impression when it is removed from the mouth. Finish and cement as indicated in the recommended procedure.

\*Not a Danville trademark.

## HELPFUL HINTS

- When starting with a new cartridge: place cartridge in gun, remove cap, and extrude a small amount of material to insure both sides are flowing. NOTE: Always bleed the cartridge before installing a new tip.
- Make sure to mount the mixing tip properly. The tip has different size bores, and a notch to indicate proper orientation. Incorrectly mounting the tip can damage cartridge or cause cross-contamination.
- Waste the first pea size amount of mixed material that is extruded from tip to insure a full mix.
- Do not remove tip after use, it will serve as a new cap. Do not use cartridge intra-orally.
- A slightly gummy air inhibited layer will remain on the hardened surface of the provisional restoration. This layer allows bubble and margin defects to be minimized by directly bonding with a flowable composite such as StarFlow. The layer is easily removed with ethyl alcohol or polishing wheels/brushes.
- Exposure to temperatures below 74°F will extend the setting time of Turbo Temp 3. Set times are based on room temperature material. Refrigeration greatly retards set times.
- Normally there is no need for occlusal adjustments if vinyl polysiloxane is used.

**STORAGE:** Store TurboTemp 3 at temperatures lower than 82°F(28°C). Refrigeration may extend shelf life. Do not freeze. Do not use after expiration date.

## SECTION I: IDENTIFICATION

Company Name:  
Danville Materials  
3420 Fostoria Way Suite A-200  
San Ramon, CA 94583  
Phone (800) 827-7940  
Fax: (925) 973-0764  
Prepared: December 5, 2011

## SECTION II: HAZARD(S) IDENTIFICATION

OSHA Permissible Exposure Limits: None  
Other Exposure Limit Used: None  
ACGIH Threshold Exposure Limit: None  
Chronic, Other: None

## SECTION III: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component	% by weight
Multifunctional Methacrylates	40-50
Malonylurea Derivative	Trace
Glass/Silica Filler	40-45
Polyvinyl esters	5-10

## SECTION IV: FIRST-AID MEASURES

Primary Routes of Exposure: Skin, ingestion  
Signs of Exposure: Severe skin or eye irritation, redness or burning sensation.  
Ingestion may cause nausea.  
Medical Conditions Generally Aggravated by Exposure: Allergies to methacrylates.  
First Aid Procedures: For Skin - Wash off infected area with soap and water. For Ingestion - Seek medical advice, carry container with label and MSDS. For Eyes - Rinse immediately with plenty of water and consult physician.

## SECTION V: FIRE-FIGHTING MEASURES

Flash Point: >100°C  
Extinguishing Media: Carbon dioxide, foam, dry chemical  
Special Fire Fighting Procedures: None  
Flammable limits: ND  
Unusual Fire and Explosion Hazards: Polymerizes upon heating.

## SECTION VI: ACCIDENTAL RELEASE MEASURES

None

## SECTION VII: HANDLING AND STORAGE

Spill Management: Use absorbent to collect the material. Wash contaminated surfaces with Soap and water

## SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory: None  
Eye Protection: Safety goggles  
Gloves: Surgical, rubber/PVC gloves

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## TurboTemp™ 3

### SECTION 1: Identification of the substance/mixture and of the supplier

**Product name:** TurboTemp™ 3

**Manufacturer/Supplier Trade name:** TurboTemp™ 3

**Manufacturer/Supplier Article number:** 93280

**Recommended uses of the product and restrictions on use:** Dental composite resin.

**Manufacturer Details:**

Danville Materials  
3420 Fostoria Way Suite a200  
San Ramon, CA 94583  
Tel:

**Supplier Details:**

Danville Materials  
3420 Fostoria Way Suite a200  
San Ramon, CA 94583  
Tel:

**Emergency telephone number:**

CHEMTREC: 1-800-424-9300, 703-527-3887

### SECTION 2: Hazards identification

**Classification of the substance or mixture:**



**Irritant**

Skin irritation, category 2  
Eye irritation, category 2A

Serious Eye Damage/Eye Irritation - Category 2A  
Skin irritation - Category 2

**Signal word:** Warning.

**Hazard statements:**

Causes skin irritation.  
Causes serious eye irritation.

**Precautionary statements:**

If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Wash skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN: Wash with soap and water.  
Specific treatment (see supplemental first aid instructions on this label).  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.  
Continue rinsing.  
If eye irritation persists get medical advice/attention.

**Hazards not otherwise classified (HNOC):** No additional information.

**Other Non-GHS Classification:**

WHMIS



D2B

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## TurboTemp™ 3

### NFPA/HMIS



NFPA SCALE (0-4)

Health	2
Flammability	0
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

0=Minimal Hazard; 1=Slight Hazard; 2=Moderate Hazard; 3=Serious Hazard; 4=Severe Hazard.

### SECTION 3: Composition/information on ingredients

Ingredients:		
CAS#	Description	Wt. %
CAS N/A	Multifunctional Methacrylates	40-50 %
CAS N/A	Malonylurea Derivative	<1 %
CAS N/A	Glass/Silica Filler	40-45 %
CAS N/A	Polyvinyl esters	5-10 %

Percentages are by weight

### SECTION 4: First aid measures

#### Description of first aid measures

**After inhalation:** Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position. Seek medical assistance if cough or other symptoms appear.

**After skin contact:** Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

**After eye contact:** Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

**After swallowing:** Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person.

#### Most important symptoms and effects, both acute and delayed:

Irritation. Headache. Nausea. Shortness of breath.

#### Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing agents:

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

**For safety reasons unsuitable extinguishing agents:** None identified.

#### Special hazards arising from the substance or mixture:

Oxides of carbon. Thermal decomposition can lead to release of irritating gases and vapors. Polymerizes upon heating.

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## TurboTemp™ 3

### Advice for firefighters:

#### Protective equipment:

Wear protective eyewear, gloves, and clothing. Refer to Section 8. Use NIOSH- approved respiratory protection/breathing apparatus.

#### Additional information (precautions):

Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

### Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

### Methods and material for containment and cleaning up:

Wear protective eyewear, gloves, and clothing. Refer to Section 8. Always obey local regulations. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal.

**Reference to other sections:** No additional information.

## SECTION 7: Handling and storage

### Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

### Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials..

## SECTION 8: Exposure controls/personal protection



### Control Parameters:

112926-00-8, Silica Amorphous, OSHA PEL 20 mppcf TWA; (80)/(%) SiO<sub>2</sub> mg/m<sup>3</sup> TWA

### Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

### Respiratory protection:

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

### Protection of skin:

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

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- Eye protection:** Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.
- General hygienic measures:** Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

### SECTION 9: Physical and chemical properties

<b>Appearance (physical state, color):</b>	Tooth colored paste	<b>Explosion limit lower:</b> <b>Explosion limit upper:</b>	Not Determined Not Determined
<b>Odor:</b>	Slight odor	<b>Vapor pressure:</b>	Negligible
<b>Odor threshold:</b>	Not Determined	<b>Vapor density:</b>	>1
<b>pH-value:</b>	Not Determined	<b>Relative density:</b>	Not Determined
<b>Melting/Freezing point:</b>	Not Determined	<b>Solubilities:</b>	Slightly soluble in water.
<b>Boiling point/Boiling range:</b>	Not Determined	<b>Partition coefficient (n-octanol/water):</b>	Not Determined
<b>Flash point (closed cup):</b>	>100° C	<b>Auto/Self-ignition temperature:</b>	Not Determined
<b>Evaporation rate:</b>	Not Determined	<b>Decomposition temperature:</b>	Not Determined
<b>Flammability (solid, gaseous):</b>	Not Determined	<b>Viscosity:</b>	a. Kinematic: Not Determined b. Dynamic: Not Determined
<b>Density:</b> >1 <b>Percent volatile (by volume):</b> 85-90%			

### SECTION 10: Stability and reactivity

- Reactivity:** Nonreactive under normal conditions.
- Chemical stability:** Stable under normal conditions.
- Possible hazardous reactions:** Mixing with developer will cause ammonia gas. This will dissipate quickly as pH is neutralized.
- Conditions to avoid:** Incompatible materials. Heat in excess of 25°C, direct sunlight or intense light.
- Incompatible materials:** Free radical initiators, oxidizing agents.
- Hazardous decomposition products:** Acrylic smoke.

### SECTION 11: Toxicological information

<b>Acute Toxicity:</b>	No additional information.
<b>Chronic Toxicity:</b>	No additional information.
<b>Corrosion irritation:</b>	No additional information.
<b>Sensitization:</b>	May cause skin sensitivity in select individuals.
<b>Single target organ (STOT):</b>	No additional information.
<b>Numerical measures:</b>	No additional information.
<b>Carcinogenicity:</b>	No additional information.
<b>Mutagenicity:</b>	No additional information.
<b>Reproductive toxicity:</b>	No additional information.



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## TurboTemp™ 3

### SECTION 12: Ecological information

**Ecotoxicity:** Not determined.  
**Persistence and degradability:** Not determined.  
**Bioaccumulative potential:** Not determined.  
**Mobility in soil:** Not determined.  
**Other adverse effects:** None identified.

### SECTION 13: Disposal considerations

#### Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

### SECTION 14: Transport information

<b>UN-Number:</b>	Not Regulated.
<b>UN proper shipping name:</b>	Not Regulated.
<b>Transport hazard class(es):</b>	Not applicable.
<b>Packing group:</b>	Not applicable.
<b>Environmental hazard:</b>	Not applicable.
<b>Transport in bulk:</b>	Not applicable.
<b>Special precautions for user:</b>	Not applicable.

### SECTION 15: Regulatory information

#### United States (USA)

**SARA Section 311/312 (Specific toxic chemical listings):** Acute.  
**SARA Section 313 (Specific toxic chemical listings):** None of the ingredients are listed.  
**RCRA (hazardous waste code):** None of the ingredients are listed.  
**TSCA (Toxic Substances Control Act):** All ingredient are listed.  
**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):** None of the ingredients are listed.

#### Proposition 65 (California):

**Chemicals known to cause cancer:** None of the ingredients are listed.  
**Chemicals known to cause reproductive toxicity for females:** None of the ingredients are listed.  
**Chemicals known to cause reproductive toxicity for males:** None of the ingredients are listed.  
**Chemicals known to cause developmental toxicity:** None of the ingredients are listed.

#### Canada

**Canadian Domestic Substances List (DSL):** All ingredients are listed.  
**Canadian NPRI Ingredient Disclosure list (limit 0.1%):** None of the ingredients are listed.  
**Canadian NPRI Ingredient Disclosure list (limit 1%):** None of the ingredients are listed.

### SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**Note:** The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of



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handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

### Abbreviations and acronyms:

**IMDG:** International Maritime Code for Dangerous Goods.  
**PNEC:** Predicted No-Effect Concentration (REACH).  
**CFR:** Code of Federal Regulations (USA).  
**SARA:** Superfund Amendments and Reauthorization Act (USA).  
**RCRA:** Resource Conservation and Recovery Act (USA).  
**TSCA:** Toxic Substances Control Act (USA).  
**NPRI:** National Pollutant Release Inventory (Canada).  
**DOT:** US Department of Transportation.  
**IATA:** International Air Transport Association.  
**GHS:** Globally Harmonized System of Classification and Labelling of Chemicals.  
**ACGIH:** American Conference of Governmental Industrial Hygienists.  
**CAS:** Chemical Abstracts Service (division of the American Chemical Society).  
**NFPA:** National Fire Protection Association (USA).  
**HMIS:** Hazardous Materials Identification System (USA).  
**WHMIS:** Workplace Hazardous Materials Information System (Canada).  
**DNEL:** Derived No-Effect Level (REACH).

Effective date: 06.16.2015

Last updated: 06.16.2015