

## **SAFETY DATA SHEETS**

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

072361632

**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).**

072361608 072361616 072361624 072361640

**SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory: None

Eye Protection: Safety goggles

Gloves: Surgical, rubber/PVC gloves

Other Clothing and Equipment: Face Mask

Ventilation: None required, local exhaust recommended

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

Vapor Pressure: Negligible

Vapor Density: &gt;1

Evaporation Rate: &lt;1

Solubility in Water: Slight

Boiling Point: ND

Specific Gravity: &gt;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 XII : 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**

n/a

**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.



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

90346 REV E

Obtained by Global Safety Management, www.globalsafety.com (877) 683-7460

# TurboTemp 2™

**INSTRUCTIONS**

Turbo Temp 2™ is a unique 4:1, syringeable bis-acryl composite for temporary restorations. Turbo Temp is fast and accurate, especially when used in conjunction with a quality vinyl polysiloxane impression material such as Star VPS (available from Danville Materials).

**TURBO TEMP KIT**

Turbo Temp comes in a 76 gm automix cartridge. Ten waste-saver tips are included per kit. (Extra tips 10/pk, Order No. 90162, 50/pk, Order No. 90163).

Turbo Temp cartridges are designed to fit on a new style automix gun Order No. 90176.

It is important not to remove the cap on the cartridge until use. After use, leave the used tip on the cartridge. The hardened resin in the tip acts as a cap until the next use.

**IMMEDIATELY PRIOR TO USE**

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

**BEFORE THE PREP**

Make initial impression. Place some flexible vinyl polysiloxane (Star VPS Monophase recommended) on a posterior type bite tray and have patient close. Stiff heavy body materials must be avoided, as once removed, they do not go back well into undercuts. Alginate will also serve as a less satisfactory alternative.

An inexpensive bite tray is recommended for the initial impression. The small bite tray requires less impression material.

**PREP AND FINAL IMPRESSION**

Cut preparation. Take a final impression for the lab. Use a triple tray. Dual viscosity vinyl polysiloxane impression materials are recommended.

**AFTER THE PREP**

Once the prep and the lab impression have been completed, you are ready to make the temporary. Working time is only 30 to 40 seconds. Set time is 1-1/2 minutes after placement in mouth and full hardness is 3 to 4 minutes. Inject Turbo Temp into the prep areas of the preliminary impression. Use care to avoid trapping air bubbles. Have patient close on tray. Choose cementation technique A or B.

**A. Cementation Method (Recommended Technique)**

1. Remove the tray 1-3/4 to 2 minutes after the mix was injected. The temporary will be retained in the tray and will be slightly flexible. Break off the excess material around the temp while it is still in the impression. This excess should be thin and flexible and can be trimmed easily with an



2. Immediately reset the temp in the mouth and wait 1 or 2 more minutes for the completion of cure.
3. Remove again, wait 4-5 minutes, and pop the temp out of impression.
4. Trim margins with a diamond (it is now rigid).
5. Cement in place, using a non-eugenol temporary cement.

#### B. Non-Cementation Method

1. Leave Turbo Temp in the mouth during the initial insertion for 2 ½ minutes. It will shrink to fit. It is recommended to cut an escape route in the facial surface of the impression. This will allow excess Turbo Temp to escape, thereby reducing flashing.
2. Remove impression from mouth; the temporary should remain in the mouth.
3. Trim excess with the scalpel blade or a diamond bur if necessary.

Note: Some non-cemented Turbo Temp restorations may turn dark after two weeks. To avoid this, either place permanent restoration within two weeks or cement the temporary restoration.

#### Turbotemp 2 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 would be done on the lingual to preserve esthetics. The preferred block-out material is Ultradent Blue Bolckout, but soft wax can also be used.

#### Reinforcement can also be used in addition:

Take the preliminary impression. Then place a piece of Ribbond or some other fibers, from mesial to distal, using cured flowable composite to hold it on preps. The entire piece of reinforcement should be infused with flowable composite. A figure 8 configuration might be considered. No bonding is used so that the reinforcement will be retrievable with the temporary restoration. In the usual manner, form the Turbotemp 2 over the reinforcement. Do not disturb the oxygen inhibited outer layer on the flowable so the Turbotemp 2 will adhere directly to it.

#### Trouble Shooting

- When starting with a new cartridge, discard the first pea size amount dispensed through the mixing tip to ensure even mixing.
- Do not remove the mixing tip after each use. Wait until ready to use it again, then install new tip. This will prevent catalyst contamination possibly resulting in a plug.
- Mount the mixing tip in proper alignment. Note that the tips are notched to indicate the proper alignment on the cartridge. By forcing the tip, it can be mounted backwards, resulting in non-setting mixes. (The two sides of the mixing tip have different size bores.)
- A slightly gummy air inhibited layer will remain on the hardened surface of the temporary. 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.
- Exposure to temperatures below 74°F will extend the setting time of Turbo Temp. 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.
- Before placing a new mix tip, extrude a small amount of material to insure both sides are flowing. Waste a pea size amount of material immediately before use to insure a full mix.

## MATERIAL SAFETY DATA

### SECTION I - PRODUCT IDENTIFICATION

Company Name: Danville Materials  
3420 Fostoria Way Suite A-200  
San Ramon, CA 94583  
Phone: (925)973-0710  
Fax: (925) 973-0764  
Prepared: December 19, 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 30-40  
Malyonlurea Derivative Trace  
Silica Filler 45-50  
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 - ACCIDENT RELEASE MEASURES

None

### SECTION VII - HANDLING AND STORAGE

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

## Turbo Temp 2

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

**Product name:** Turbo Temp 2

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number:** Turbo Temp 2

**Recommended uses of the product and restrictions on use:**

**Manufacturer Details:** Danville Materials, LLC  
3420 Fostoria Way, Suite A-200  
San Ramon, CA 94583

## Supplier Details:

## Emergency telephone number:

ChemTrec Inc 1-800-424-9300, 703-527-3887 (CHEMTREC)

## SECTION 2 : Hazards Identification

## Classification of the substance or mixture:



**Irritant**  
Skin sensitization, category 1

Serious eye damage/eye irritation - Category 1  
Respiratory sensitization - Category 1  
Skin sensitization - Category 1

**Signal word :** Warning

**Hazard statements:**

May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction

**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  
Do not breath dust/fume/gas/mist/vapours/spray  
Contaminated work clothing should not be allowed out of the workplace  
In case of inadequate ventilation wear respiratory protection  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Immediately call a POISON CENTER or doctor/physician  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.  
Continue rinsing.  
If exposed or concerned: Get medical advice/attention  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician  
Specific treatment (see supplemental first aid instructions on this label)  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

<b>Turbo Temp 2</b>
---------------------

Wash contaminated clothing before reuse  
 Store locked up  
 Dispose of contents and container as instructed in Section 13

<b>SECTION 3 : Composition/information on ingredients</b>
---

<b>Ingredients:</b>		
CAS - various	Multifunctional Methacrylates	40 - 50%
CAS - 72846-00-5	Malonyurea Derivative	Trace
CAS - various	Glass/Silica Filler	40 - 45%
CAS - proprietary	Polyvinyl esters	5 - 10%
Percentages are by weight		

<b>SECTION 4 : First aid measures</b>
---------------------------------------

**Description of first aid measures**

**After inhalation:** Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get 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 immediately.

**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.

<b>SECTION 5 : Firefighting measures</b>
--

**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:**

Thermal decomposition can lead to release of irritating gases and vapors.

**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.

<b>SECTION 6 : Accidental release measure</b>
---

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

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

## Turbo Temp 2

**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:**

### 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:**

This product contains no relevant components with limits of values to be supervised at the workplace.

**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 back up 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 technique without touching outer surface. Avoid skin contact with gloves. Wear protective clothing.

**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 hygiene 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.

## Turbo Temp 2

## SECTION 9 : Physical and chemical properties

<b>Appearance (physical state, color):</b>	Paste, Putty, Knead-able Paste	<b>Explosion limit lower; Explosion limit upper;</b>	Not applicable Not applicable
<b>Odor:</b>	Odorless	<b>Vapor pressure:</b>	Non volatile
<b>Odor threshold:</b>	Odorless	<b>Vapor density:</b>	Not Determined
<b>pH-value:</b>	Not Determined	<b>Relative density:</b>	Not Determined
<b>Melting/Freezing point:</b>	Not Determined	<b>Solubilities:</b>	Soluble
<b>Boiling point/Boiling range:</b>	Not Determined	<b>Partition coefficient (n-octanol/water):</b>	Not Determined
<b>Flash point (closed cup):</b>	Not Determined	<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 flammable	<b>Viscosity:</b>	a. Kinematic: Not Determined b. Dynamic: Not Determined
<b>Density:</b> Not Determined			

## SECTION 10 : Stability and reactivity

**Reactivity:** Nonreactive under normal conditions.

**Chemical stability:** Stable under normal conditions.

**Possible hazardous reactions:** None identified.

**Conditions to avoid:** Incompatible materials. Prolonged Extreme Heat. Free radical initiators.

**Incompatible materials:** Contact with iron.

**Hazardous decomposition products:** Not determined.

## SECTION 11 : Toxicological information

<b>Acute Toxicity:</b>		
<b>Dermal:</b>	111-30-8	LD50 Rabbit 560 µL/kg (Source: NLM_CIP)
<b>Inhalation</b>	111-30-8	LC50 Rat 0.1 mg/L 4 h (source: IUCLID)
<b>Oral:</b>	111-30-8	LD50 Rat 252 mg/kg (Source: NLM_CIP)
<b>Dermal:</b>	868-77-9	Dermal LD50 Rabbit > 3000 mg/kg (Source: IUCLID)
<b>Oral:</b>	868-77-9	LD50 Rat 5050 mg/kg (Source: NLM_CIP)
<b>Chronic Toxicity:</b> No additional information.		
<b>Corrosion Irritation:</b>		
<b>Ocular:</b>	[Commission of the European Communities. Legislation on Dangerous Substances - Classification and Labelling in the European Communities. Vol. II. London and Trotman Ltd., 1989., p. 404] @**PEER REVIEWED**	Irritating to eyes and skin.
<b>Sensitization:</b>		
No additional information.		
<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.		

## Turbo Temp 2

**SECTION 12 : Ecological information****Ecotoxicity**

**111-30-0** : Freshwater algae: 72 Hr EC50 Desmodesmus subspicatus: 0.61 mg/L; 96 Hr EC50 Desmodesmus subspicatus 0.84 mg/L

**868-77-9** : Freshwater fish: 96 Hr LC50 Pimephales promelas: 213 -0242 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 227 mg/L

**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 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****UN-Number**

Not Regulated

**UN proper shipping name**

Not Regulated

**Transport hazard class(es)**

**Packing group:** Not Regulated

**Environmental hazard:****Transport in bulk:****Special precautions for user:****SECTION 15 : Regulatory information****United States (USA)****SARA Section 311-312 (Specific toxic chemical listings):**

Acute

**SARA Section 313 (Specific toxic chemical listings):**

None

**RCRA (hazardous waste code):**

None of the ingredients are listed.

**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

1310-58-3 Potassium hydroxide 1000 lbs

123-31-9 Hydroquinone 100 lbs

**Proposition 65 (California):****Chemicals known to cause cancer:**

None of the ingredients are listed



**Turbo Temp 2****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 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.

**GHS Full Text Phrases:****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: 02.11.2015

Last updated: 05.14.2015