This SDS packet was issued with item:
070869099

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

070869057 070869081 070869107 070869115 070869123 070869131 070869149 070869156 070869164 070869172
070869180 070869198 070869206

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).

070869040
MATERIAL SAFETY DATA SHEET

Date / Revised: 11/14/2013

1. **Identification: Substance / Preparation and Company name**
   
   **Product Name:** Patterson Flowable Composite
   
   **Product Codes:** 070869040, 070869057, 070869073, 070869081, 070869099, 070869107, 070869115,
   070869123, 070869131, 070869149, 070869156, 070869164, 070869172, 070869180,
   070869198, 070869206
   
   **Recommended use:** For filling of cavitated teeth by dental professionals.

   **Manufacturer / Supplier**
   
   Patterson Companies, Inc.
   1031 Mendota Heights Road
   St. Paul, MN 55120
   www.pattersoncompanies.com

   **Telephone:** 1-800 328-5536
   **Fax:** 1-651 686-9331

   **Emergency contact number:** 24-hour Emergency Response Number: 1-(800) 424-9300.

2. **Hazard Identification**

   Products may cause irritation to the skin, eye and mucous membrane. Ingestion of unpolymerised material may cause gastric irritation. In isolated cases, contact allergies have been reported with acrylic resins. Anyone with known history of resin allergies are advised to seek the advice of a specialist before use.

   **Hazard classification:** Skin Sens. 1; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3.

   **WARNING** (Exclamation mark)

   **Hazard phrases**
   
   H317 May cause an allergic skin reaction
   H315 Causes skin irritation
   H319 Causes serious eye irritation
   H335 May cause respiratory irritation

   **Precaution phrases:**
   
   P280 Wear protective gloves, use eye protection.
   P302+P352 IF ON SKIN: Wash with plenty of soap and water.
   P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
   P363 Wash contaminated clothing before re-use.
   P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
2. Hazard Identification...continued

Precaution phrases:  
P337+P313 If eye irritation persists: Get medical advice/attention. 
P304+P340 If INHALED: Remove victim to fresh air and keep at rest in position comfortable for breathing. 
P312 Call a POISON CENTRE or doctor/physician if you feel unwell. 
P102 Keep out of reach of children.

3. Composition / Information on ingredients

<table>
<thead>
<tr>
<th>Composition</th>
<th>CAS No.</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylic monomers</td>
<td>72869-86-4, 109-16-0, 24448-20-2</td>
<td>6.0 – 46.0</td>
</tr>
</tbody>
</table>

4. First Aid Measures

Eye (contact): Flush opened eye with running water for at least 15 minutes. Remove contact lenses if present and easy to do. If eye irritation persists, seek medical attention.

Skin (contact): Remove contaminated clothing. Wash skin with soap and water. In case of allergic reaction or irritation, seek medical attention. Wash contaminated clothing before re-use.

Ingestion: Seek medical attention.

Inhalation: If any respiratory irritation, remove victim to fresh air and seek medical attention.

5. Fire Fighting Measures

Suitable extinguishing media: Sand, chemical foam, carbon dioxide, dry chemicals.

Unusual Fire and Explosion Hazards: Heat can cause polymerization with rapid release of energy which may melt the container.

Special protective equipment: No special measures required for small quantity (less than 1 kg). For large quantity, wear approved respirator and protective gear. Use water spray to cool container.

6. Accidental Release Measures

Personal precautions: Not required.

Environmental precautions: Prevent any spillage from entering waterways, drains or sewage system.

Methods for cleaning up: Scoop up bulk material and transfer to containers for disposal.
7. Handling and storage

Handling
Replace caps immediately after use.

Storage
Store in a cool place at temperatures between 10°C and 25°C (50° - 77°F). Keep out of direct light.

8. Exposure controls and personal protection

Respiratory protection: None required under normal conditions of use. Avoid breathing product.

Hand protection: Rubber, latex or PVC gloves.

Eye protection: Not absolutely necessary however avoid exposure with eyes as product is irritating.

General safety and hygiene measures: Follow good housekeeping practices and good industrial hygiene in handling this material. Remove any naked lights or strong heat sources.

9. Physical and chemical properties

Appearance: Tooth coloured viscous / flowable paste.

Odour: Ester like.

Boiling point: Gel before boiling.

Melting point: Not established.

Specific gravity: 1.5 - 2.0

Flash point: Not established.

Flammable: Not established.

Autoflammability: Do not self ignite.

Explosive properties: Do not present an explosion hazard.

Oxidizing properties: Not established.

Vapour pressure (@ 20°C): 0 mbar

Relative density: Not established.

Solubility: Insoluble in water.
10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to avoid: Avoid heat, ignition sources, aging, contamination and intense visible light.

Materials to avoid: Free radical formers, e.g. peroxides, reducing substances and/or heavy metals ions.

Hazardous decomposition products: None under normal conditions. Oxides of carbon when burned.

Hazardous reactivity (polymerization): Heat and intense light can cause polymerization. Spontaneous polymerization may occur in the presence of radical formers. May polymerize under these conditions with heat evolution.

11. Toxicological information

Acute toxicity: May be irritating to skin, eye and mucous membrane.

Sensitization: No sensitizing effect known. In isolated cases contact allergies have been reported.

Inhalation: None expected.

12. Ecological information

Self assessment: Slightly hazardous for water. Do not allow large quantities to reach sewage system and waterways.

13. Disposal considerations

Dispose of in accordance with local official regulations.

14. Transport information

Glacier, Wave, Wave MV, Wave HV, Rok, Ice, Aura and LC Opaquer are not classified as Dangerous Goods for air, sea, rail or road transport.

15. Regulatory information

These products are regulated by:

TGA
Medical Devices 93/42/EEC
FDA
National regulations
16. Other information

The information provided herein is given in good faith, but no warranty expressed or implied is made.
SECTION 1: Identification

Product identifier
- **Product name:** Patterson Flowable Composite
- **Product code:** 070869040, 070869057, 070869081, 070869099, 070869107, 070869115, 070869123, 070869131, 070869149, 070869156, 070869164, 070869172, 070869180, 070869198, 070869206

Recommended use of the product and restriction on use
- **Relevant identified uses:** For filling of cavitated teeth by dental professionals.
- **Uses advised against:** Not determined or not applicable.
- **Reasons why uses advised against:** Not determined or not applicable.

Manufacturer or supplier details
- **Manufacturer:** Patterson Companies, Inc.
- **Supplier:** Patterson Companies, Inc.
  1031 Mendota Heights Road
  St. Paul, MN 55120
  1-800-328-5536 Fax:1-651-686-9331

Emergency telephone number:
- **United States CHEMTREC**
  Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)
  Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

SECTION 2: Hazard(s) identification

**GHS classification:** Not a hazardous substance or mixture

**Label elements**
- **Hazard pictograms:** None
- **Signal word:** None
- **Hazard statements:** None
- **Precautionary statements:** None
- **Hazards not otherwise classified:** None

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Identification</th>
<th>Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number:</td>
<td>Acrylic monomers</td>
<td>35-45</td>
</tr>
<tr>
<td>72869-86-4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

Description of first aid measures

General notes:
Not determined or not applicable.

After inhalation:
Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell

After skin contact:
Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention

After eye contact:
Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention

After swallowing:
Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:
Not determined or not applicable.

Delayed symptoms and effects:
Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:
Not determined or not applicable.

Notes for the doctor:
Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:
Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:
Not determined or not applicable.

Specific hazards during fire-fighting:
Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:
Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:
Not determined or not applicable.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Ensure adequate ventilation
Ensure air handling systems are operational
Wear protective eye wear, gloves and clothing

Environmental precautions:
Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:
Wear protective eye wear, gloves and clothing
Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

Reference to other sections:
Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:
Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:
Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:
No occupational exposure limits noted for the ingredient(s).

Biological limit values:
No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:
Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.
Biological monitoring may also be appropriate for some substances.

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.

Personal protection equipment

Eye and face protection:
Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:
Select glove material impermeable and resistant to the substance.
Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:
If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
General hygienic measures:
Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of work.
Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Tooth coloured viscous / flowable paste.</td>
</tr>
<tr>
<td>Odor</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Initial boiling point/range</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Flash point (closed cup)</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Upper flammability/explosive limit</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Lower flammability/explosive limit</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Solubilities</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Auto/Self-ignition temperature</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not determined or not available.</td>
</tr>
</tbody>
</table>

Other information

SECTION 10: Stability and reactivity

Reactivity:
Does not react under normal conditions of use and storage.

Chemical stability:
Stable under normal conditions of use and storage.

Possibility of hazardous reactions:
None under normal conditions of use and storage.

Conditions to avoid:
None known.

Incompatible materials:
None known.
Hazardous decomposition products:
None known.

SECTION 11: Toxicological information

Acute toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Skin corrosion/irritation
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Serious eye damage/irritation
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Respiratory or skin sensitization
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Carcinogenicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.
International Agency for Research on Cancer (IARC): None of the ingredients are listed.
National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Reproductive toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Specific target organ toxicity (single exposure)
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Specific target organ toxicity (repeated exposure)
Assessment: Based on available data, the classification criteria are not met.
Product data:
Safety Data Sheet

Initial preparation date: 11.22.2017

Patterson Flowable Composite

No data available.

**Substance data:** No data available.

**Aspiration toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**
No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:**
No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:**
No data available.

**Other information:**
No data available.

SECTION 12: Ecological information

**Acute (short-term) toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**
No data available.

**Substance data:** No data available.

**Chronic (long-term) toxicity**

**Product data:**
No data available.

**Substance data:** No data available.

**Persistence and degradability**

**Product data:**
No data available.

**Substance data:** No data available.

**Bioaccumulative potential**

**Product data:**
No data available.

**Substance data:** No data available.

**Mobility in soil**

**Product data:**
No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

SECTION 13: Disposal considerations

**Disposal methods:**
It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

SECTION 14: Transport information

**United States Transportation of dangerous goods (49 CFR DOT)**

<table>
<thead>
<tr>
<th>UN number</th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Not regulated</td>
</tr>
<tr>
<td>UN transport hazard class(es)</td>
<td>None</td>
</tr>
<tr>
<td>Packing group</td>
<td>None</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None</td>
</tr>
</tbody>
</table>
SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

<table>
<thead>
<tr>
<th>UN number</th>
<th>Acrylic monomers</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>72869-86-4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals:

<table>
<thead>
<tr>
<th>UN number</th>
<th>Acrylic monomers</th>
<th>Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>72869-86-4</td>
<td></td>
<td>Not</td>
</tr>
</tbody>
</table>

CERCLA: Not determined.

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

<table>
<thead>
<tr>
<th>UN number</th>
<th>Acrylic monomers</th>
<th>Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>72869-86-4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

New Jersey Right to Know:

<table>
<thead>
<tr>
<th>UN number</th>
<th>Acrylic monomers</th>
<th>Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>72869-86-4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

New York Right to Know:

<table>
<thead>
<tr>
<th>UN number</th>
<th>Acrylic monomers</th>
<th>Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>72869-86-4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Pennsylvania Right to Know:

<table>
<thead>
<tr>
<th>UN number</th>
<th>Acrylic monomers</th>
<th>Not Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>72869-86-4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information
Patterson Flowable Composite

**Abbreviations and Acronyms:** None

**Disclaimer:**
This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**Initial preparation date:** 11.22.2017

End of Safety Data Sheet