1 Identification

· Product identifier

· Trade name: GC Temp PRINT

· Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.

· Application of the substance / the mixture Auxillary for dental technology

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:
  GC Australasia Dental Pty Ltd
  1753 Botany Road
  Banksmeadow, NSW 2019
  Tel: +61 2 9301 8200

· Further information obtainable from: Regulatory affairs


2 Hazard(s) Identification

· Classification of the substance or mixture
  Skin Sens. 1 H317 May cause an allergic skin reaction.
  STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

· Label elements

· GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

· Exemptions
  The product, regulated as an invasive medical device by the Regulation (EC) 2017/745, is exempted from labelling requirements for substances and mixtures (according to the provision of the Art 1.5).

· Hazard pictograms

· GHS07

· GHS08

· Signal word Danger

· Hazard-determining components of labelling:
  Urethane Dimethacrylate (UDMA)
  Quartz
  2,2'-ethylenedioxydiethyl dimethacrylate

· Hazard statements
  May cause an allergic skin reaction.
  Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

· Precautionary statements
  Do not breathe dust/fume/gas/mist/vapours/spray.
**Trade name:** GC Temp PRINT

(Contd. of page 1)

Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

---

**3 Composition and Information on Ingredients**

- **Chemical characterisation:** Mixtures
- **Description:**

Only substances required to be mentioned according to Annex II of regulation 1907/2006 are listed. Information on the other substances that may be present can be obtained upon request.

- **Dangerous components:**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Hazard Class</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>72869-86-4</td>
<td>Urethane Dimethacrylate (UDMA)</td>
<td>Skin Sens. 1</td>
<td>50-&lt;75%</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Quartz</td>
<td>STOT RE 1</td>
<td>10-&lt;25%</td>
</tr>
<tr>
<td>109-16-0</td>
<td>2,2'-ethylenedioxydiethyl dimethacrylate</td>
<td>Skin Sens. 1</td>
<td>10-&lt;25%</td>
</tr>
<tr>
<td>68909-20-6</td>
<td>Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica</td>
<td>STOT RE 2</td>
<td>5-&lt;10%</td>
</tr>
<tr>
<td>75980-60-8</td>
<td>diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>Repr. 2</td>
<td>1-&lt;2.5%</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>titanium dioxide</td>
<td>Carc. 2</td>
<td>0.5-&lt;1%</td>
</tr>
<tr>
<td>2440-22-4</td>
<td>2-(2H-benzotriazol-2-yl)-p-cresol</td>
<td>Acute Tox. 3</td>
<td>0.1-&lt;0.2%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

---

**4 First Aid Measures**

- **General information:**
  Immediately remove any clothing soiled by the product.
  If symptoms persist consult doctor.

- **After inhalation:**
  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
  Take affected persons into fresh air and keep quiet.

- **After skin contact:**
  Immediately wash with water and soap and rinse thoroughly.
  Seek medical treatment.
  If skin irritation continues, consult a doctor.

- **After eye contact:**
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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· After swallowing:
  Rinse out mouth and then drink plenty of water.
  If symptoms persist consult doctor.
· Information for doctor:
  · Most important symptoms and effects, both acute and delayed Allergic reactions
  · Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Fire Fighting Measures

· Suitable extinguishing agents:
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  Use fire extinguishing methods suitable to surrounding conditions.
· For safety reasons unsuitable extinguishing agents: Water with full jet
· Special hazards arising from the substance or mixture
  Formation of toxic gases is possible during heating or in case of fire.
  No further relevant information available.
· Protective equipment: Wear self-contained respiratory protective device.
· Additional information
  Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures
  Remove persons from danger area.
  Avoid contact with the eyes and skin.
  Wear protective clothing.
· Environmental precautions:
  Do not allow product to reach sewage system or any water course.
  Do not allow to penetrate the ground/soil.
· Methods and material for containment and cleaning up:
  Absorb liquid components with liquid-binding material.
  Dispose of the material collected according to regulations.
· Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and Storage

· Handling:
  · Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
    Avoid contact with the eyes and skin.
· Information about fire - and explosion protection: No special measures required.
· Storage:
  · Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.
  · Information about storage in one common storage facility: Store away from foodstuffs.
  · Further information about storage conditions: None.

(Contd. of page 2)
Trade name: GC Temp PRINT

- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- Additional information about design of technical facilities: No further data; see section 7.

- Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>TWA Long-term value</th>
<th>WES Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7</td>
<td>Quartz</td>
<td>0.1 mg/m³ respirable dust</td>
<td>0.05 mg/m³ respirable dust</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
<td>WES Long-term value: 10 mg/m³ inhalable dust</td>
<td></td>
</tr>
</tbody>
</table>

- DNELs

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>DNEL inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide</td>
<td>10 mg/m³ (man)</td>
</tr>
</tbody>
</table>

- Additional information: The lists valid during the making were used as basis.

- Personal protective equipment:

- General protective and hygienic measures:
  - The usual precautionary measures are to be adhered to when handling chemicals.
  - Avoid contact with the eyes and skin.
  - Wash hands before breaks and at the end of work.
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing.

- Respiratory protection: Suitable respiratory protective device recommended.

- Protection of hands:

  - Protective gloves

  - Material of gloves
  - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

  - Penetration time of glove material
  - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection:

  - Tightly sealed goggles
### 9 Physical and Chemical Properties

**General Information**
- **Appearance:** Fluid
- **Form:** Fluid
- **Colour:** According to product specification
- **Odour:** Undetermined.
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - **Melting point/freezing point:** Undetermined.
  - **Initial boiling point and boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gas):** Not applicable.
- **Auto-ignition temperature:** Undetermined.
- **Decomposition temperature:** Not determined.
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C (68 °F):** 1.3 g/cm³ (10.8485 lbs/gal)
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with**
  - **water:** Insoluble.
  - **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity**
  - **Dynamic at 20 °C (68 °F):** 2,000 mPas
  - **Kinematic:** Not determined.
- **Solvent content:**
  - **VOC (EC):** 0.0 g/l
- **Other information**
  - No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
  - No dangerous reactions known.
- **Conditions to avoid**
  - No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
  - Based on available data, the classification criteria are not met.
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LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>Substance</th>
<th>LD50/LC50</th>
<th>Exposure route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>72869-86-4 Urethane Dimethacrylate (UDMA)</td>
<td>&gt;5,000 mg/kg (rat female) (OECD 401)</td>
<td>Oral</td>
<td></td>
</tr>
<tr>
<td>13463-67-7 titanium dioxide</td>
<td>&gt;5,000 mg/kg (mouse) (OECD 420)</td>
<td>Oral</td>
<td></td>
</tr>
<tr>
<td>2440-22-4 2-(2H-benzotriazol-2-yl)-p-cresol</td>
<td>10,000 mg/kg (rat (f+m))</td>
<td>Oral</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt;6.82 mg/l (rat male)</td>
<td>Inhalative</td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation
May cause an allergic skin reaction.

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Carcinogenicity
Based on available data, the classification criteria are not met.

STOT-single exposure
Based on available data, the classification criteria are not met.

STOT-repeated exposure
Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

Aspiration hazard
Based on available data, the classification criteria are not met.

Additional toxicological information:


cmR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
No further relevant information available.

12 Ecological Information

Toxicity

Aquatic toxicity:

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC50/48h (static)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>72869-86-4 Urethane Dimethacrylate (UDMA)</td>
<td>&gt;1.2 mg/l (daphnia magna) (OECD 202)</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability
No further relevant information available.

Behaviour in environmental systems:

Bioaccumulative potential
No further relevant information available.

Mobility in soil
No further relevant information available.

Additional ecological information:

General notes:
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects
No further relevant information available.

13 Disposal considerations

Waste treatment methods

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

(Contd. on page 7)
Trade name: GC Temp PRINT

(Contd. of page 6)

14 Transport information

- **UN-Number**
  - ADG, IMDG, IATA
  UN3082

- **UN proper shipping name**
  - ADG
    3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA))
  - IMDG
    ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA), 2-(2H-benzotriazol-2-yl)-p-cresol), MARINE POLLUTANT
  - IATA
    ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane Dimethacrylate (UDMA))

- **Transport hazard class(es)**
  - ADG
    ![Transport hazard class](image)
    - **Class**
      9 (M6) Miscellaneous dangerous substances and articles.
    - **Label**
      9

- **IMDG, IATA**
  ![Transport hazard class](image)
  - **Class**
    9 Miscellaneous dangerous substances and articles.
  - **Label**
    9

- **Packing group**
  - ADG, IMDG, IATA
    III

- **Environmental hazards:**
  - **Marine pollutant:**
    No
  - **Special marking (ADG):**
    Symbol (fish and tree)
  - **Special marking (IATA):**
    Symbol (fish and tree)

- **Special precautions for user**
  - **Warning:** Miscellaneous dangerous substances and articles.
  - **Hazard identification number (Kemler code):**
    90
  - **EMS Number:**
    F-A,S-F
  - **Stowage Category**
    A

- **Transport in bulk according to Annex II of Marpol and the IBC Code**
  Not applicable.

(Contd. on page 8)
Trade name: GC Temp PRINT

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture

- Australian Inventory of Industrial Chemicals
  All ingredients are listed.

- Standard for the Uniform Scheduling of Medicines and Poisons
  None of the ingredients is listed.

- Australia: Priority Existing Chemicals
  None of the ingredients is listed.

- GHS label elements
  The product is classified and labelled according to the Globally Harmonised System (GHS).
  
- Hazard pictograms

  GHS07  GHS08

- Signal word
  Danger

- Hazard-determining components of labelling:
  Urethane Dimethacrylate (UDMA)
  Quartz
  2,2'-ethylenedioxydiethyl dimethacrylate

- Hazard statements
  May cause an allergic skin reaction.
  Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

- Precautionary statements
  Do not breathe dust/fume/gas/mist/vapours/spray.
  Contaminated work clothing should not be allowed out of the workplace.
  Wear protective gloves.
  If skin irritation or rash occurs: Get medical advice/attention.
Trade name: GC Temp PRINT

Specific treatment (see on this label).
Dispose of contents/container in accordance with local/regional/national/international regulations.

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

- Relevant phrases
  H311 Toxic in contact with skin.
  H317 May cause an allergic skin reaction.
  H331 Toxic if inhaled.
  H351 Suspected of causing cancer.
  H361 Suspected of damaging fertility or the unborn child.
  H372 Causes damage to organs through prolonged or repeated exposure.
  H373 May cause damage to organs through prolonged or repeated exposure.

- Department issuing SDS: Regulatory affairs
- Contact: msds@gc.dental

Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity – Category 3
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Sources
- ECHA (http://echa.europa.eu/)
- EnviChem (www.echemportal.org)

* Data compared to the previous version altered.
This version replaces all previous versions.

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