### 01. Identification of substance, preparation and company

<table>
<thead>
<tr>
<th>Product name</th>
<th>Ivoclar Vivadent Tetric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of the substance / preparation</td>
<td>Highly dispersed hybrid composite</td>
</tr>
<tr>
<td>Manufacturer/Supplier</td>
<td>Ivoclar Vivadent AG</td>
</tr>
<tr>
<td>Street/P.O.Box</td>
<td>Benderstrasse 2 FL-9494</td>
</tr>
<tr>
<td>Country code/Postal code/Town/City</td>
<td>D-Schaan Fürstentum Liechtenstein</td>
</tr>
<tr>
<td>Telephone</td>
<td>+423/235 35 35</td>
</tr>
<tr>
<td>Telefax</td>
<td>+432/235 33 60</td>
</tr>
<tr>
<td>Distributor</td>
<td>Ivoclar Vivadent P/L (Australia), 1-5 Overseas Drive, Noble Park North, Victoria 3174</td>
</tr>
<tr>
<td></td>
<td>Phone No.: +61-3 9795 9599, Telefax No.: +61-3 9795 9645</td>
</tr>
<tr>
<td>Emergency information</td>
<td>Poisons Information Centre: Dial 13 11 26</td>
</tr>
<tr>
<td></td>
<td>24 hours a day, 7 days a week Australia wide</td>
</tr>
</tbody>
</table>

### 02. Hazards identification

**Statement of Hazardous Nature**

This product is not classified as: Hazardous according to criteria of National Occupational Health and Safety Commission.

**Non-Dangerous Goods according to ADG.** Uncured material: Direct contact can cause eye and skin irritation. The material is contraindicated if a person is known to be allergic to any of the ingredients of the product.

**Hazard designation**

- Classification: Not classified
- ADG Classification: not classified
- UN Number: not classified

**Particular information pertaining specific risk for human and environment**

None, if handled according to order. May cause sensitisation by skin contact with skin. Irritating to eyes, skin and mucus membranes.

### 03. Composition/information on ingredients

**Chemical characterization** Paste of dimethacrylates, inorganic fillers, ytterbiumtrifluoride, initiators, stabilizers and pigments

**Hazardous components**


**Other ingredients determined not be hazardous**

Uncured material: Direct contact can cause eye and skin irritation. The material is contraindicated if a person is known to be allergic to any of the ingredients of the product.

### 04. First-aid measures

**General**

Immediately remove all contaminated clothing.

**After inhalation**

Let in fresh air. Call a doctor, should the air passages be affected.

**After skin contact**

Flush with plenty of water. Wash thoroughly with soap and water
After eye contact
Flush with plenty of water (10 - 15 min.). Contact a doctor immediately.

After ingestion
Drink plenty of water. Do not induce vomiting. Contact a doctor immediately. No hazards anticipated from swallowing small amounts incidentally.

05. Fire-fighting measures
Suitable extinguishing media
Carbon dioxide. Extinguishing powder. Water fog, foam, dry chemicals. Not combustible under normal conditions. Adapt extinguishing measures to suit the environment.

Unsuitable extinguishing media
Waterjet.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged
None known.

Special protective equipment
When extinguishing fires, use breathing apparatus with an independent source of air.

06. Accidental release measures
Personal precautions
Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions
Prevent from flowing into surface water/ground water.

Methods for cleaning up/collecting
Take up with a mechanical source and proceed according to the waste disposal regulations.

Additional information
Remove according to regulations. Cool containers in the vicinity of the blaze using a water spray. Clean up with absorbent material. Prevent skin and eye contact. Clean area with large amounts of water.

07. Handling and storage
Information for safe handling
Containers to be opened and handled with care. Make sure that ventilation is adequate. Only adequately trained personnel should handle this product. Keep out of reach of children. When using, do not eat, drink or smoke.

Information about protection against explosions and fires
No anti-explosion measures necessary.

Requirements to be met by storerooms and containers
Keep only in the original container. Store at 2-28 °C / 36-82 °F. Do not store in open sunshine. Keep away from heat source. Avoid exposure to light.

Information about separation of incompatible products
Store the foodstuffs separately.

08. Exposure controls and personal protection
Additional information about engineering measures
No particular measures required. Technical measures provide adequate local ventilation. Control airborne concentration below the exposure guideline.

Components with critical values that require monitoring at the workplace (exposure limits)
Dust and Vapours
Specification : TWA (AUS)
Value : MAK 0 mg/m³
Personal protective equipment
Do not eat or drink during work - no smoking. Keep away from food, drink and animal feeding stuff. Avoid contact with skin and eyes. Respiratory protection
Respiratory protection
Provide for good ventilation.

Hand protection
Short-term exposure (< 30 min): disposable gloves, e.g. nitrile rubber, material thickness 0.1 mm (Australian Standard 2161).
Long-term exposure (Level 6: < 480 min): protective gloves, e.g. nitrile rubber, material thickness 0.7 mm (Australian Standard 2161).

Eye protection
Use tightly fitting safety glasses (Australian Standard AS 1336 and AS/NZS 1337).

Body protection
No particular measures required.

09. Physical and chemical properties

Form : Paste
Colour : off-white to cream
Odour : practically odourless

Relevant safety data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point / range</td>
<td>( 1013 hPa )</td>
</tr>
<tr>
<td>Casting point / range</td>
<td>( 1013 hPa )</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>&gt; 150 °C</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>not applicable</td>
</tr>
<tr>
<td>Density</td>
<td>( 20 °C )                2.26 g/cm³</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>( 20 °C )                &lt; 0.1 % b.w.</td>
</tr>
<tr>
<td>pH value</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Conditions to avoid
None, if handled according to order.

Materials to avoid
None known.

Hazardous decomposition products
None if used in accordance with instructions.

11. Toxicological information

Toxicological tests
non-cytotoxic, non-mutagenic, non-irritant, non-sensitizer. Mutagenity: negative (Ames-Test, Maus Micronucleus- and Maus Lymphoma-Test) Oral LD50 for rats: > 5'000 mg/kg

Primary irritant effect
Uncured material: prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals

Sensitization
No data available.

Experience on practice
The product has sensitizing effects. Long contact: irritating of skin/eyes/respiratory tract.

No hazards anticipated from swallowing small amounts incidentally

Skin sensitisation may develop from prolonged, repeated skin contact. Avoid excessive heat and direct sunlight.

Avoid exposure to light. Uncured material: prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals.

12. **Ecological information**

No ecological problems to be anticipated if properly handled and used. Nearly insoluble

**Details on elimination (persistance / degradibility)**

- **Abiotical elimination**
  - No data available.
- **Biological degradation / elimination**
  - No data available.

**Fate in environmental compartments**

There are no data available on the preparation itself.

**Ecotoxicological effects**

- **Performance in sewage-treatment plants**
  - The product must not enter effluent, ground water, surface water or the soil.

13. **Disposal considerations**

**Product**

Concentrate: The cleaned-up material must be disposed of in accordance with Federal, State or Local regulations.

**Contaminated packaging**

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

14. **Transport information**

**Land transport ADG**

- **Classification**
  - EU waste key 20 01 39
- **ADR**
  - Class:
    - UN Number: RID
  - Packing Group: Proper K:\mler Number
  - RID: K:\mler Number

**Maritime transport IMDG**

- **Classification**
  - IMDG-Code:
    - ADNR
    - EMS UN Number: IMDG
    - Packing Group: Proper MFAG
  - Shipping name

**Air transport ICAO-TI and IATA-DGR**

- **Classification**
  - Class:
    - ICAO / IATA-DGR
    - Proper shipping name
    - UN Number
    - Subsidiary Risk Labels
    - Packing Instructions
    - Packing Group

15. **Regulatory information**

**Classification**
Material Safety Data Sheet
according to NOHSC:2011(2003)

Product name: Ivoclar Vivadent Tetric
Statement of Hazardous Nature: This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.
Print date: 21.07.2009

Danger symbol and danger designation

Xi: Irritant. R36: Irritating to eyes. R38: Irritating to skin. CAS No. 109-16-0 < 4 % Triethylene glycol dimethacrylate
Xi: Irritant. R36/37/38: Irritating to eyes, respiratory system and skin. CAS No. 72869-86-4 < 8 % Urethane dimethacrylate

Hazard-determining components of labelling
None : MAK value 0.0 mg/m³ ml/m³ (ppm)
R-phrases
43 May cause sensitisation by skin contact.
36/37/38 Irritating to eyes, respiratory system and skin.

S-phrases
2 Keep out of the reach of children.
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of water and soap.
37/39 Wear suitable gloves and eye/face protection.

16. Other information
Processing instructions / technical data sheets
Please observe the label/directions for use!

Further information
This is a medical device classified under the requirements of EU and TGA.

Contact
Dr. Peter Lobo

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.