1 Identification

· Trade name: GC G-Coat Plus
· 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
  Flam. Liq. 2 H225 Highly flammable liquid and vapour.
  Skin Irrit. 2 H315 Causes skin irritation.
  Skin Sens. 1 H317 May cause an allergic skin reaction.
  Repr. 2 H361 Suspected of damaging fertility or the unborn child (causing atrophy of the testes).
  STOT SE 3 H335 May cause respiratory irritation.
· Label elements
  GHS label elements
  Exempt from requirements - product regulated as a medical device or an in vitro diagnostic medical device.
  The product is classified and labelled according to the Globally Harmonised System (GHS).
· Hazard pictograms

  GHS02  GHS07  GHS08
· Signal word Danger
· Hazard-determining components of labelling:
  Methyl methacrylate
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
· Hazard statements
  Highly flammable liquid and vapour.
  Causes skin irritation.
  May cause an allergic skin reaction.

(Contd. on page 2)
Safety Data Sheet
according to WHS Regulations

Printing date 14.05.2020  Version number 3  Revision: 14.05.2020

Trade name: GC G-Coat Plus

Suspected of damaging fertility or the unborn child (causing atrophy of the testes).
May cause respiratory irritation.

· Precautionary statements
  Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  Wear protective gloves/protective clothing/eye protection/face protection.
  IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  IF exposed or concerned: Get medical advice/attention.
  Specific treatment (see on this label).
  Take off contaminated clothing and wash it before reuse.
  Store locked up.
  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>Substance Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6</td>
<td>Methyl methacrylate</td>
<td>25-50%</td>
</tr>
<tr>
<td>7631-86-9</td>
<td>Silicon dioxide</td>
<td>10-25%</td>
</tr>
<tr>
<td>75980-60-8</td>
<td>Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</td>
<td>≥3-5%</td>
</tr>
<tr>
<td>85590-00-7</td>
<td>Methacryloyloxydecyl dihydrogen phosphate</td>
<td>1-2.5%</td>
</tr>
</tbody>
</table>

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

4 First Aid Measures

· Description of 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 doctor.
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

Extinguishing media
Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.
For safety reasons unsuitable extinguishing agents: Water
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.

Advice for firefighters
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.
Keep away from ignition sources.
Avoid contact with the eyes and skin.
Wear protective clothing.

Environmental precautions:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to penetrate the ground/soil.
In case of seepage into the ground inform responsible authorities.

Methods and material for containment and cleaning up:
Ensure adequate ventilation.
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:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Do not spray onto a naked flame or any incandescent material.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**
  - **Requirements to be met by storerooms and receptacles:**
  - Store in a cool location.
  - Store only in unopened original receptacles.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:**
  - Keep container tightly sealed.
  - Store in cool, dry conditions in well sealed receptacles.
  - Protect from heat and direct sunlight.
  - Store in a cool place.

· **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 item 7.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>WES Short-term value: 416 mg/m³, 100 ppm</th>
<th>Long-term value: 208 mg/m³, 50 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6 Methyl methacrylate</td>
<td></td>
<td>Sen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA Long-term value: <code>2 mg/m³</code></th>
<th>WES Long-term value: <code>2 mg/m³</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>7631-86-9 silicon dioxide</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

· **DNELs**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Dermal DNEL</th>
<th>Inhalative DNEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6 Methyl methacrylate</td>
<td>13.67 mg/kg bw/day (man) (worker, l. te., syst.)</td>
<td>208 mg/m³ (air) (worker, l. te., syst.)</td>
</tr>
</tbody>
</table>

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

· **Exposure controls**

· **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 cannot be calculated in advance and has therefore to be checked prior to the application.

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

· Eye protection:

Tightly sealed goggles

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9 Physical and Chemical Properties

· Information on basic physical and chemical properties
· General Information
  · Appearance:
    Form: Liquid
    Colour: Light yellow
    Odour: Ester-like
    Odour threshold: Not determined.
  · pH-value: Not determined.

· Change in condition
  Melting point/freezing point: Undetermined.
  Initial boiling point and boiling range: 101 °C (213.8 °F)

· Flash point: 10 °C (50 °F)

· Flammability (solid, gas): Not applicable.

· Ignition temperature: Undetermined.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not self-igniting.

· Explosive properties: Product does not present an explosion hazard.

· Explosion limits:
  Lower: 2.1 Vol %
  Upper: 12.5 Vol %

· Vapour pressure: Not determined.

· Density at 20 °C (68 °F): 1.1 g/cm³ (9.1795 lbs/gal)
· Relative density: Not determined.
· Vapour density: Not determined.

(Contd. on page 6)
10 Stability and Reactivity

- Reactivity: No further relevant information available.
- Chemical stability
- 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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Oral LD₅₀</th>
<th>Dermal LD₅₀</th>
<th>Inhalative LC₅₀/4 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>80-62-6 Methyl methacrylate</td>
<td>6,000 mg/kg (rabbit)</td>
<td>&gt;5,000 mg/kg (rab)</td>
<td>29.8 mg/l (rat (f+m))</td>
</tr>
</tbody>
</table>

- Primary irritant effect:
- Skin corrosion/irritation: Irritant to skin and mucous membranes.
- Serious eye damage/irritation: No irritating effect.
- Respiratory or skin sensitisation: Sensitisation possible through skin contact.
- Additional toxicological information:
  The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  - Irritant
  - Repeated dose toxicity: No further relevant information available.
  - CMR effects (carcinogenity, mutagenicity and toxicity for reproduction): Repr. 2

12 Ecological Information

- Toxicity
- Aquatic toxicity: No further relevant information available.
51.0.2

· 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:
    Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water.
    Do not allow product to reach ground water, water course or sewage system, even in small quantities.
    Danger to drinking water if even extremely small quantities leak into the ground.
· 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.
· Uncleaned packaging:
  · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number
  · ADG, IMDG, IATA: UN1247
· UN proper shipping name
  · ADG: 1247 METHYL METHACRYLATE MONOMER, STABILIZED mixture
  · IMDG, IATA: METHYL METHACRYLATE MONOMER, STABILIZED mixture
· Transport hazard class(es)
  · ADG
    · Class: 3 (F1) Flammable liquids.
    · Label: 3
  · IMDG, IATA
    · Class: 3 Flammable liquids.
    · Label: 3
Trade name: GC G-Coat Plus

- Packing group: ADG, IMDG, IATA
- Environmental hazards:
  - Marine pollutant: No
- Special precautions for user: Warning: Flammable liquids.
- Hazard identification number (Kemler code): 339
- EMS Number: F-E,S-D
- Stowage Category: B
- Stowage Code: SW2 Clear of living quarters.
- Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.
- Transport/Additional information:
  - ADG
    - Limited quantities (LQ): 1L
    - Excepted quantities (EQ): Code: E2
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 500 ml
  - IMDG
    - Limited quantities (LQ): 1L
    - Excepted quantities (EQ): Code: E2
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 500 ml
  - UN "Model Regulation": UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED MIXTURE, 3, II

15 Regulatory information

- Australian Inventory of Chemical Substances
  - 80-62-6 Methyl methacrylate
  - 7631-86-9 silicon dioxide
  - 75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
  - 10287-53-3 ethyl 4-dimethylaminobenzoate
  - 465-29-2 Bornane-2,3-dione
  - 2530-85-0 3-trimethoxysilylpropyl methacrylate
  - 128-37-0 Butylated hydroxytoluene
- Standard for the Uniform Scheduling of Medicines and Poisons
  - 80-62-6 Methyl methacrylate S6, S10
- 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).
Trade name: GC G-Coat Plus

- Hazard pictograms

- Signal word Danger

- Hazard-determining components of labelling:
  Methyl methacrylate
  diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

- Hazard statements
  Highly flammable liquid and vapour.
  Causes skin irritation.
  May cause an allergic skin reaction.
  Suspected of damaging fertility or the unborn child (causing atrophy of the testes).
  May cause respiratory irritation.

- Precautionary statements
  Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  Wear protective gloves/protective clothing/eye protection/face protection.
  IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  IF exposed or concerned: Get medical advice/attention.
  Specific treatment (see on this label).
  Take off contaminated clothing and wash it before reuse.
  Store locked up.
  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 P5c FLAMMABLE LIQUIDS
  - Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
  - Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
  - Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

- Relevant phrases
  H225 Highly flammable liquid and vapour.
  H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.
  H319 Causes serious eye irritation.
  H335 May cause respiratory irritation.
  H361 Suspected of damaging fertility or the unborn child (causing atrophy of the testes).

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

- Abbreviations and acronyms:
  ADR: Accord européen sur le transport 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)
Trade name: GC G-Coat Plus

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
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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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