1 Identification of the substance or mixture and of the supplier

前所未有的安全性数据表

根据HSNO

印刷日期：2020年1月31日   修订日期：2020年1月31日   版本号：4

· Product identifier
  · Trade name: IvoBase Hybrid Polymer / IvoBase High Impact Polymer

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

· Application of the substance / the mixture
  Denture base material

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier:
    Ivoclar Vivadent AG
    Bendererstrasse 2
    9494 Schaan
    PRINCIPALITY OF LIECHTENSTEIN
    Tel: +423 235 35 35 / Fax: +423 235 33 60

  Importer:
  Ivoclar Vivadent Pty. Ltd.
  12 Omega St, Rosedale, Auckland
  New Zealand
  Tel: + 64 9 914 9999 / Fax: + 64 9 914 9990

· Further information obtainable from:
  Regulatory Affairs
  sds@ivoclarvivadent.com

· Emergency telephone number: 0800 764 766 (National Poison Centre - 24 hours / 7 days)

2 Hazards identification

· Classification of the substance or mixture
  Skin Sens. 1 H317 May cause an allergic skin reaction.

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

· Hazard pictograms

  GHS07

· Signal word Warning

· Hazard-determining components of labelling:
  dibenzoyl peroxide

· Hazard statements
  May cause an allergic skin reaction.

· Precautionary statements
  Avoid breathing dust/fume/gas/mist/vapours/spray.
  Do not get in eyes, on skin, or on clothing.
  Wear protective gloves/protective clothing/eye protection/face protection.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

· Other hazards
  Dust generation
  Particular danger of slipping on leaked/spilled product.

· Results of PBT and vPvB assessment
  · PBT: Not applicable.

(Contd. on page 2)
Trade name: IvoBase Hybrid Polymer / IvoBase High Impact Polymer

3 Composition/Information on ingredients

- Chemical characterisation: Mixtures
- Description: > 95% polymethylmethacrylate
- Dangerous components:
  - CAS: 94-36-0
dibenzoyl peroxide
  - EINECS: 202-327-6
Org. Perox. B, H241; Eye Irrit. 2, H319; Skin Sens. 1, H317
<2.5%
- 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: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
  - Rinse with water.
  - Generally the product does not irritate the skin.
- After eye contact:
  - Rinse opened eye for several minutes under running water. Then consult a 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 No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire fighting measures

- Extinguishing media
  - Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- 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:** Only adequately trained personnel should handle this product. For use in dentistry only.
  - **Information about fire - and explosion protection:** No special measures required.

- **Conditions for safe storage, including any incompatibilities:**
  - **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** Protect from heat and direct sunlight.
  - **Specific end use(s):** No further relevant information available.

8 Exposure controls/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:**
    - **CAS:** 94-36-0 dibenzoyl peroxide
      - **WES Long-term value:** 5 mg/m³
  - **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls:**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**
      - Usual hygienic measures for dental practice and dental laboratories.
      - Keep away from foodstuffs, beverages and feed.
      - Wash hands before breaks and at the end of work.
      - Avoid contact with the skin.
     - **Respiratory protection:** Use respiratory protective device against the effects of dust.
  - **Protection of hands:**
    - **Protective gloves**
      - After use of gloves apply skin-cleaning agents and skin cosmetics.
      - **Material of gloves**
        - Butyl rubber, BR
        - Chloroprene rubber, CR
        - Natural rubber, NR
        - Nitrile rubber, NBR
        - Fluorocarbon rubber (Viton)
      - 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.

(Contd. on page 4)
9 Physical and chemical properties

- **Appearance:** Powder
- **Colour:** According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not applicable.
- **Melting point/freezing point:** 150 °C
- **Initial boiling point and boiling range:** Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gas):** Not determined.
- **Auto-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 applicable.
- **Density at 20 °C:** 1.2 g/cm³
- **Relative density:** Not determined.
- **Vapour density:** Not applicable.
- **Evaporation rate:** Not applicable.
- **Solubility in / Miscibility with water:** Nearly insoluble.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
  - Dynamic: Not applicable.
  - Kinematic: Not applicable.
- **Other information:** No further relevant information available.

10 Stability and reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal handling and storage conditions.
- **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:** None under normal conditions of storage and use.
11 Toxicological information

- Information on toxicological effects
  - Acute toxicity
  - Skin corrosion/irritation: No irritant effect.
  - Serious eye damage/irritation: No irritating effect.
  - Respiratory or skin sensitisation: Sensitisation possible through skin contact.
  - Additional toxicological information: No further relevant information available.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
- 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 1 (German Regulation) (Self-assessment): slightly hazardous for water
    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
    Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.
- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - ADR/RID/ADN, ADN, IMDG, IATA: Void
- UN proper shipping name
  - ADR/RID/ADN, ADN, IMDG, IATA: Void
- Transport hazard class(es)
  - ADR/RID/ADN, ADN, IMDG, IATA: Void
  - Class: Void
- Packing group
  - ADR/RID/ADN, IMDG, IATA: Void
- Environmental hazards:
  - Marine pollutant: No
### Special precautions for user
Not applicable.

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

### Transport/Additional information:
Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).

### UN "Model Regulation":
Void

## 15 Regulatory information

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

<table>
<thead>
<tr>
<th>New Zealand Inventory of Chemicals</th>
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<tbody>
<tr>
<td>CAS: 9011-14-7</td>
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<tr>
<td>CAS: 77-90-7</td>
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<tr>
<td>CAS: 94-36-0</td>
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<td>CAS: 4948-15-6</td>
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<td>CAS: 29920-31-8</td>
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<td>CAS: 1317-61-9</td>
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<tr>
<td>CAS: 13463-67-7</td>
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</tbody>
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### GHS label elements
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### Hazard pictograms

GHS07

### Signal word
Warning

### Hazard-determining components of labelling:
dibenzoyl peroxide

### Hazard statements
May cause an allergic skin reaction.

### Precautionary statements
Avoid breathing dust/fume/gas/mist/vapours/spray.
Do not get in eyes, on skin, or on clothing.
Wear protective gloves/protective clothing/eye protection/face protection.
Dispose of contents/container in accordance with local/regional/national/international regulations.

### Directive 2012/18/EU
None of the ingredients is listed.

### Named dangerous substances - ANNEX I
None of the ingredients is listed.

### National regulations:

### Other regulations, limitations and prohibitive regulations
The product is a medical device according to the Directive 93/42/EEC.

### Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H241 Heating may cause a fire or explosion.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Org. Perox. B: Organic peroxides – Type B
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1