1 Identification

- Product identifier
  
  Trade name: **IPS PressVEST Speed Powder**
  
- Application of the substance / the mixture: Auxiliary for dental technology
  
- Details of the supplier of the safety data sheet
  
  Manufacturer/Supplier:
  
  Ivoclar Vivadent Inc.
  
  175 Pineview Drive, Amherst, N.Y. 14228
  
  USA
  
  Tel. +1 800 533 6825
  
  Fax +1 716 691 2285
  
  Ivoclar Vivadent Inc.
  
  1-6600 Dixie Road
  
  Mississauga, Ontario
  
  L5T 2Y2
  
  Canada
  
  Phone: +1 905 670 8499
  
  Fax: +1 905 670 3102
  
- Information department: Quality Assurance / Regulatory Affairs
  
- Emergency telephone number:
  
  24 Hour Emergency Assistance:
  
  Emergency-Call USA - Infotrac: 1-800-535-5053
  
  Emergency-Call Canada - Canutec: 1-613-996-6666
  
  General SDS Assistance:
  
  US: 1-800-533-6825
  
  Canada: 1-800-263-8182

2 Hazard(s) identification

- Classification of the substance or mixture
  
  Carc. 1A  **H350** May cause cancer.
  
  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 labeled according to the Globally Harmonized System (GHS).
  
- Hazard pictograms
  
  **GHS08**
  
- Signal word: **Danger**
  
- Hazard-determining components of labeling:
  
  Quartz (SiO2)
  
  Cristobalite
  
- Hazard statements
  
  May cause cancer.
  
  Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

(Contd. on page 2)
Trade name: IPS PressVEST Speed Powder

- **Precautionary statements**
  - Do not breathe dust.
  - Get medical advice/attention if you feel unwell.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    - Health = 2
    - Fire = 0
    - Reactivity = 0
  - **HMIS-ratings (scale 0 - 4)**
    - Health = *2
    - Fire = 0
    - Reactivity = 0
- **Other hazards**
  - Risk of lung damage (silicosis).
  - Particular danger of slipping on leaked/spilled product.
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>CAS</th>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7</td>
<td>Quartz (SiO2)</td>
<td>50-100%</td>
</tr>
<tr>
<td>14464-46-1</td>
<td>cristobalite</td>
<td>10-&lt;25%</td>
</tr>
<tr>
<td>1309-48-4</td>
<td>magnesium oxide</td>
<td>&lt;10%</td>
</tr>
<tr>
<td>1344-28-1</td>
<td>aluminium oxide</td>
<td>2.5-&lt;10%</td>
</tr>
</tbody>
</table>

### 4 First-aid measures

- **Description of first aid measures**
  - **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.
    - Mechanical effects only.
  - **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.
Trade name: IPS PressVEST Speed Powder

- Indication of any immediate medical attention and special treatment needed
  No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents:
    The product is not flammable.
    Use fire fighting measures that suit the environment.
  - Special hazards arising from the substance or mixture
    Nitrogen oxides (NOx)
    Ammonia
- Advice for firefighters
  - Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective clothing.
  Use respiratory protective device against the effects of fumes/dust/aerosol.
  Avoid formation of dust.
- 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.
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of dust.
    Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.
- Information about protection against explosions and fires: No special measures required.
  - Conditions for safe storage, including any incompatibilities
  - Storage:
    - 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: Keep receptacle tightly sealed.
  - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
Control parameters

Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>CAS: 14808-60-7 Quartz (SiO2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL see Quartz listing</td>
</tr>
<tr>
<td>REL Long-term value: 0.05* mg/m³</td>
</tr>
<tr>
<td>*respirable dust; See Pocket Guide App. A</td>
</tr>
<tr>
<td>TLV Long-term value: 0.025* mg/m³</td>
</tr>
<tr>
<td>*as respirable fraction</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 14464-46-1 cristobalite</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL ½ value from respirable dust formulae for Quartz</td>
</tr>
<tr>
<td>REL Long-term value: 0.05* mg/m³</td>
</tr>
<tr>
<td>*respirable dust; See Pocket Guide App. A</td>
</tr>
<tr>
<td>TLV Long-term value: 0.025* mg/m³</td>
</tr>
<tr>
<td>*as respirable fraction</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 1309-48-4 magnesium oxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL Long-term value: 15* mg/m³</td>
</tr>
<tr>
<td>fume; *total particulate</td>
</tr>
<tr>
<td>TLV Long-term value: 10* mg/m³</td>
</tr>
<tr>
<td>*as inhalable fraction</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 1344-28-1 aluminium oxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL Long-term value: 15*; 5** mg/m³</td>
</tr>
<tr>
<td>*Total dust; ** Respirable fraction</td>
</tr>
<tr>
<td>REL Long-term value: 10* 5** mg/m³</td>
</tr>
<tr>
<td>as Al*Total dust**Respirable/pyro powd./welding f.</td>
</tr>
<tr>
<td>TLV Long-term value: 1* mg/m³</td>
</tr>
<tr>
<td>as Al; *as respirable fraction</td>
</tr>
</tbody>
</table>

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:
Usual hygienic measures for dental practice and dental laboratories.
Vacuum clean contaminated clothing. Do not blow or brush off contamination.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.

Breathing equipment:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Recommended filter device for short term use:
Filter P2
Filter P3

Protection of hands: Not required.

Material of gloves -

Penetration time of glove material -

Eye protection: Safety glasses
9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Powder
      - Color: Light orange color
      - Odor: Odorless
      - Odor threshold: Not applicable.
  - pH-value (10 g/l) at 20 °C (68 °F): ~ 6
  - Change in condition
    - Melting point/Melting range: > 1400 °C (> 2552 °F)
    - Boiling point/Boiling range: Undetermined.
  - Flash point: Not applicable.
  - Flammability (solid, gaseous): Not applicable.
  - Auto igniting: Product is not selfigniting.
  - Danger of explosion: Product does not present an explosion hazard.
  - Explosion limits:
    - Lower: Not applicable.
    - Upper: Not applicable.
  - Vapor pressure: Not applicable.
  - Density: Not determined.
  - Bulk density at 20 °C (68 °F): 1150 kg/m³
  - Relative density: Not determined.
  - Vapor density: Not applicable.
  - Evaporation rate: Not applicable.
  - Solubility in / Miscibility with
    - Water: Insoluble.
  - Partition coefficient (n-octanol/water): Not determined.
  - Viscosity:
    - Dynamic: Not applicable.
    - Kinematic: Not applicable.
  - Solvent content:
    - Organic solvents: 0.0 %
  - 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**
- **Additional toxicological information:**
  - **Carcinogenic categories**
    - **IARC (International Agency for Research on Cancer)**
      - CAS: 14808-60-7 Quartz (SiO2) 1
      - CAS: 14464-46-1 cristobalite 1
    - **NTP (National Toxicology Program)**
      - CAS: 14808-60-7 Quartz (SiO2) K
      - CAS: 14464-46-1 cristobalite K
    - **OSHA-Ca (Occupational Safety & Health Administration)**
      - None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior 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 (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 packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**
- **DOT, ADR,RID,ADN, ADN, IMDG, IATA Void**
- **UN proper shipping name**
- **DOT, ADR,RID,ADN, ADN, IMDG, IATA Void**
15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  
  - Section 355 (extremely hazardous substances):
    None of the ingredients is listed.
  
  - Section 313 (Specific toxic chemical listings):
    - CAS: 1344-28-1 aluminium oxide
  
  - TSCA (Toxic Substances Control Act):
    All ingredients are listed.
  
- Proposition 65
  
  - Chemicals known to cause cancer:
    - CAS: 14808-60-7 Quartz (SiO2)
    - CAS: 14464-46-1 cristobalite
  
  - Chemicals known to cause reproductive toxicity for females:
    None of the ingredients is listed.
  
  - Chemicals known to cause reproductive toxicity for males:
    None of the ingredients is listed.
  
  - Chemicals known to cause developmental toxicity:
    None of the ingredients is listed.
  
- Carcinogenic categories
  
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  
  - TLV (Threshold Limit Value established by ACGIH)
    - CAS: 14808-60-7 Quartz (SiO2) A2
    - CAS: 14464-46-1 cristobalite A2
    - CAS: 1344-28-1 aluminium oxide A4
    - CAS: 1309-48-4 magnesium oxide A4

(Contd. on page 8)
Trade name: IPS PressVEST Speed Powder

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  - CAS: 14808-60-7 Quartz (SiO2)
  - CAS: 14464-46-1 cristobalite

- **GHS label elements**
  The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**
  - GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - Quartz (SiO2)
  - cristobalite

- **Hazard statements**
  - May cause cancer.
  - Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Precautionary statements**
  - Do not breathe dust.
  - Get medical advice/attention if you feel unwell.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- **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.

- **Date of preparation / last revision** 05/18/2017 / 7

- **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
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - 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)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - Carc. 1A: Carcinogenicity – Category 1A
  - STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

* **Data compared to the previous version altered.**