This SDS packet was issued with item:
077082712

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

077082720 077082738
1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Cervitec Plus
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Protective varnish
- **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.
  2785 Skymark Avenue, Unit 1, Mississauga, Ontario L4W4Y3
  CANADA
  Tel. +1 800 263 8182
  Fax +1 905 238 5711

- **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 MSDS Assistance:
  US: 1-800-533-6825
  Canada: 1-800-263-8182

2 Composition/information on ingredients

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

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 ethanol</td>
<td>H225 50-100%</td>
</tr>
<tr>
<td>89-83-8 thymol</td>
<td>H314; H411; H302 ≤ 2.5%</td>
</tr>
<tr>
<td>56-95-1 chlorhexidine diacetate</td>
<td>H318; H411; H401 ≤ 2.5%</td>
</tr>
</tbody>
</table>

3 Hazards identification

- **Classification of the substance or mixture**
  - Highly flammable
- **Information concerning particular hazards for human and environment:**
  The product has to be labelled due to the calculation procedure of international guidelines.
- **Classification system:**
  - The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**
- **Labelling according to EU guidelines:**
  The product has been classified and marked in accordance with directives on hazardous materials.

(Contd. on page 2)
Trade name: Cervitec Plus

- Code letter and hazard designation of product:
  
  Highly flammable

- Risk phrases:
  Highly flammable.

- Safety phrases:
  Keep container tightly closed and in a well-ventilated place.
  Keep away from sources of ignition - No smoking.
  Take precautionary measures against static discharges.
  This material and its container must be disposed of as hazardous waste.

- Classification system:
  - NFPA ratings (scale 0 - 4)
    
    Health = 0
    Fire = 2
    Reactivity = 0

  - HMIS-ratings (scale 0 - 4)
    
    HEALTH
    Fire = 2
    Reactivity = 0

- Other hazards

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

4 First aid measures

- Description of first aid measures
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing: 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 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents:
  - CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - For safety reasons unsuitable extinguishing agents: Water with full jet
  - Special hazards arising from the substance or mixture: No further relevant information available.
  - Advice for firefighters
  - Protective equipment: No special measures required.
  - Additional information: Cool endangered receptacles with water spray.
6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Ensure adequate ventilation.
- 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.
  - Information about protection against explosions and fires:
    Keep ignition sources away - Do not smoke.
    Protect against electrostatic charges.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: Store in a cool location.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions:
    Keep receptacle tightly sealed.
    Store in cool, dry conditions in well sealed receptacles.
- 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>Component</th>
<th>PEL</th>
<th>REL</th>
<th>TLV Short-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 ethanol</td>
<td>1900 mg/m³, 1000 ppm</td>
<td>1900 mg/m³, 1000 ppm</td>
<td>1880 mg/m³, 1000 ppm</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.
  Wash hands before breaks and at the end of work.
  Keep away from foodstuffs, beverages and feed.
- Breathing equipment: Not required.
- Protection of hands:
  Protective gloves
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 4)
Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**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

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**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - Form: Fluid
    - Color: Colorless
    - Odor: Like alcohol
    - Odour threshold: Not determined.
  - **pH-value:** Not determined.
  - **Change in condition**
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: Undetermined.
  - **Flash point:** 12°C (54°F)
  - **Ignition temperature:** 425°C (797°F)
  - **Auto igniting:** Product is not selfigniting.
  - **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
  - **Explosion limits:**
    - Lower: 3.5 Vol %
    - Upper: 15.0 Vol %
  - **Vapor pressure at 20°C (68°F):** 59 hPa (44 mm Hg)
  - **Density at 20°C (68°F):** 0.84 g/cm³ (7.01 lbs/gal)
  - **Relative density** Not determined.
  - **Vapour density** Not determined.
  - **Evaporation rate** Not determined.
  - **Solubility in / Miscibility with Water:** Partly miscible.
  - **Segregation coefficient (n-octonol/water):** Not determined.
  - **Viscosity:**
    - Dynamic: Not determined.
Trade name: Cervitec Plus

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**:
    - **Primary irritant effect**:
      - **on the skin**: No irritant effect.
      - **on the eye**: No irritating effect.
    - **Sensitization**: No sensitizing effects known.

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**: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings**
  - **Recommendation**: Disposal must be made according to official regulations.
Trade name: Cervitec Plus

14 Transport information

- **DOT regulations:**
  - Hazard class: 3
  - Identification number: UN1170
  - Packing group: II
  - Proper shipping name (technical name): ETHANOL SOLUTION
  - Label: 3

- **Land transport ADR/RID** (cross-border):
  - ADR/RID class: 3 (F1) Flammable liquids
  - Danger code (Kemler): 33
  - UN-Number: 1170
  - Packaging group: II
  - Label: 3
  - UN proper shipping name: 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

- **Maritime transport IMDG:**
  - IMDG Class: 3
  - UN Number: 1170
  - Label: 3
  - Packaging group: II
  - EMS Number: F-E,S-E
  - Marine pollutant: No
  - Proper shipping name: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

- **Air transport ICAO-TI and IATA-DGR:**
  - ICAO/IATA Class: 3
  - UN/ID Number: 1170
  - Label: 3
  - Packaging group: II
  - Proper shipping name: ETHANOL SOLUTION

- **Special precautions for user Warning:** Flammable liquids
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

(Contd. of page 7)
### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Sara**
    - **Section 355 (extremely hazardous substances):**
      - None of the ingredients is listed.
    - **Section 313 (Specific toxic chemical listings):**
      - None of the ingredients is listed.
  - **TSCA (Toxic Substances Control Act):**
    - 64-17-5 ethanol
    - 7732-18-5 water, distilled, conductivity or of similar purity
    - 89-83-8 thymol
  - **Proposition 65**
    - **Chemicals known to cause cancer:**
      - None of the ingredients is listed.
    - **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:**
      - 64-17-5 ethanol
  - **Carcinogenic categories**
    - **EPA (Environmental Protection Agency)**
      - None of the ingredients is listed.
    - **NTP (National Toxicology Program)**
      - None of the ingredients is listed.
    - **TLV (Threshold Limit Value established by ACGIH)**
      - 64-17-5 ethanol A3
    - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
      - None of the ingredients is listed.
    - **OSHA-Ca (Occupational Safety & Health Administration)**
      - None of the ingredients is listed.

- **Product related hazard informations:**
  - The product has been classified and marked in accordance with directives on hazardous materials.
  - **Hazard symbols:**
    - ![Highly flammable](image)
  - **Risk phrases:**
    - Highly flammable.
  - **Safety phrases:**
    - Keep container tightly closed and in a well-ventilated place.
    - Keep away from sources of ignition - No smoking.
    - Take precautionary measures against static discharges.
    - This material and its container must be disposed of as hazardous waste.
**Trade name: Cervitec Plus**

- **National regulations:**
  - **Other regulations, limitations and prohibitive regulations**
    The product is a medical device according to the EC-directive 93/42/EEC. This product is classified as a medical device under US and Canadian regulations and has been reviewed by the US Food and Drug Administration and Health Canada.
  - **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.