1 Identification

- **Product identifier**

- **Trade name:** Cervitec Plus

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

- **Application of the substance / the mixture** 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.
  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

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Material Safety Data Sheet  
acc. to ISO 11014  
Printing date 05/19/2015  
Reviewed on 04/29/2015  
Version number 8

Trade name: Cervitec Plus

· Hazard statements  
  Highly flammable liquid and vapor.  
  Causes skin irritation.  
  Causes serious eye irritation.  
  May cause cancer.

· Precautionary statements  
  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
  Avoid breathing dust/fume/gas/mist/vapors/spray  
  Wear protective gloves/protective clothing/eye protection/face protection.  
  Keep container tightly closed.  
  If skin irritation or rash occurs: Get medical advice/attention.  
  If eye irritation persists: Get medical advice/attention.

· Additional information:  
  Medical devices are exempt from the labeling provisions of GHS according to the Hazard Communication Standard (HCS).

· Hazard description:

· WHMIS-symbols:  
  B2 - Flammable liquid

· Classification system:  
· NFPA ratings (scale 0 - 4)  
  Health = 1  
  Fire = 2  
  Reactivity = 0

· HMIS-ratings (scale 0 - 4)  
  Health = 1  
  Fire = 2  
  Reactivity = 0

· Other hazards  
· Results of PBT and vPvB assessment  
  PBT: Not applicable.  
  vPoB: Not applicable.

3 Composition/information on ingredients  
· Chemical characterization: Mixtures  
· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:  
  64-17-5 ethanol 60-100%  
  89-83-8 thymol ≤1%  
  56-95-1 chlorhexidine diacetate ≤1%

4 First-aid measures  
· Description of first aid measures  
· After inhalation: Supply fresh air; consult doctor in case of complaints.
40.1.5

· 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 Fire-fighting 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.
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- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
  - 64-17-5 ethanol
    - **EL** Short-term value: 1000 ppm
    - **EV** Long-term value: 1.900 mg/m³, 1.000 ppm

- **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.
  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.

- **Protection of hands:**
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  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:** Safety glasses

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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 applicable.

- **Change in condition**
  - **Melting point/Melting range:** Undetermined.
  - **Boiling point/Boiling range:** Undetermined.
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- Flash point: 12 °C
- Ignition temperature: 425 °C
- 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: 59 hPa
- Density at 20 °C: 0.84 g/cm³
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with Water: Partly miscible.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- 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:
  - Primary irritant effect:
    - on the skin: No irritant effect.
    - on the eye: No irritating effect.
  - Sensitization: No sensitizing effects known.
- Additional toxicological information:
- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    64-17-5 ethanol 1
  - NTP (National Toxicology Program)
    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:
    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.

14 Transport information

- UN-Number
  - DOT
  - TDG, IMDG, IATA: UN1170
- UN proper shipping name
  - DOT, IATA: ETHANOL SOLUTION
  - TDG, IMDG: 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
  - IMDG: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

- Transport hazard class(es)
  - DOT
    - Class: 3 Flammable liquids
Trade name: Cervitec Plus

- **Label** 3
- **TDG (Transport dangerous goods):**
  - **Class** 3 (F1) Flammable liquids
  - **Label** 3

**IMDG, IATA**

- **Class** 3 Flammable liquids
- **Label** 3

- **Packing group** DOT, TDG, IMDG, IATA II
- **Environmental hazards:**
  - **Marine pollutant:** No
- **Special precautions for user** Warning: Flammable liquids
- **Danger code (Kemler):** 33
- **EMS Number:** F-E,S-E

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** UN1170, ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

### 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.
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- 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.

  · 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.

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

- Hazard pictograms
  
  ![GHS02]  ![GHS07]  ![GHS08]

- Signal word Danger

- Hazard-determining components of labeling:
  ethanol

- Hazard statements
  Highly flammable liquid and vapor.
  Causes skin irritation.
  Causes serious eye irritation.
  May cause cancer.

- Precautionary statements
  Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  Avoid breathing dust/fume/gas/mist/vapors/spray
  Wear protective gloves/protective clothing/eye protection/face protection.
  Keep container tightly closed.
  If skin irritation or rash occurs: Get medical advice/attention.
  If eye irritation persists: Get medical advice/attention.

- National regulations:

- Other regulations, limitations and prohibitive regulations
  The product is a medical device according to the 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.

- Date of preparation / last revision 05/19/2015 / 7

- Abbreviations and acronyms:
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association

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### Trade name: Cervitec Plus

- **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)
- **WHMIS:** Workplace Hazardous Materials Information System (Canada)

**Flam. Liq. 2:** Flammable liquids, Hazard Category 2

**Skin Irrit. 2:** Skin corrosion/irritation, Hazard Category 2

**Eye Irrit. 2A:** Serious eye damage/eye irritation, Hazard Category 2A

**Carc. 1A:** Carcinogenicity, Hazard Category 1A

* Data compared to the previous version altered.