1 Identification

- **Product identifier**
  - **Trade name:** Endo-Eze™ MTAFlow™, Endo-Eze™ MTAFlow™ White (Gel)
  - **Article number:** 14083
  - **Index number:** SDS 437-001.01
  - **Application of the substance / the mixture:** Professional Dental Repair Cement, Part 2 of 2

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** Ultradent Products Inc.
    505 W. Ultradent Drive (10200 S)
    South Jordan, UT 84095-3942
    USA
    onlineordersupport@ultradent.com
  - **Information department:** Customer Service
  - **Emergency telephone number:**
    CHEMTREC (NORTH AMERICA) :(800) 424-9300
    (INTERNATIONAL) : +(703) 527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**
  Emergency Overview: Endo-Eze MTAFlow Gel is slightly caustic water-based gel. Endo-Eze MTAFlow White(Gel) is slightly acidic water-based gel.
  The product is not classified, according to the Globally Harmonized System (GHS).

- **Label elements**
  - **GHS label elements** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void
  - **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    - Health = 0
    - Fire = 0
    - Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**
  - Health = 0
  - Fire = 0
  - Reactivity = 0

- **Other hazards**
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.
Trade name: Endo-Eze™ MTAFlow™, Endo-Eze™ MTAFlow™ White (Gel)

3 Composition/information on ingredients

· Chemical characterization: Mixtures
· Description: Mixture of the substances listed below with nonhazardous additions.
· Dangerous components: Void

4 First-aid measures

· Description of first aid measures
· General information: No special measures required.
· After inhalation:
  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
· After skin contact:
  Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
· After eye contact: Rinse opened eye for several minutes under running water.
· After swallowing:
  Rinse out mouth and then drink plenty of water. Seek medical treatment.
· Information for doctor:
  Most important symptoms and effects, both acute and delayed: May irritate mucosal tissues.
  Indication of any immediate medical attention and special treatment needed:
  Seek medical advice after large-scale exposure.

5 Fire-fighting measures

· Extinguishing media
· Suitable extinguishing agents:
  Foam, dry chemical, carbon dioxide
  Water spray
  Use fire fighting measures that suit the environment.
· Special hazards arising from the substance or mixture
  During heating or in case of fire poisonous gases are produced.
  Carbon Oxides
  Nitrogen oxides (NOx)
· Advice for firefighters
· Protective equipment:
  Wear fully protective suit.
  Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
· Environmental precautions: Dilute with plenty of water.
· Methods and material for containment and cleaning up: Wipe up and discard in a suitable container.
· 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
    Endo-Eze MTAFlow Gel is slightly caustic. Endo-Eze MTAFlow White Gel is slightly acidic. Wear suitable gloves and protective glasses during use. Keep out of eyes or contact with mucosal tissues. After initial contact, wash and rinse with water. Endo-Eze MTAFlow and Endo-Eze MTAFlow White Gel must be kept well-sealed, and free of contamination by pyrogens. Keep receptacles tightly sealed.
  - 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: Provide ventilation for receptacles.
    - Information about storage in one common storage facility: Not required.
    - Further information about storage conditions:
      Keep receptacle tightly sealed.
      Store in a cool place.
      Protect from exposure to the light.
      Protect from contamination.
      See product labelling.
  - Specific end use(s) Professional Dental Repair Cement, Part 2 of 2

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:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures: Do not eat or drink while working.
  - Breathing equipment:
    Suitable respiratory protective device recommended.
  - Protection of hands:
    - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Material of gloves
    Nitrile rubber, NBR

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Light yellow</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Odorless</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>pH-value at 20 °C</strong></td>
<td>3-8</td>
</tr>
<tr>
<td><strong>Melting point/Melting range</strong></td>
<td>0 °C</td>
</tr>
<tr>
<td><strong>Boiling point/Boiling range</strong></td>
<td>~100 °C</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Auto igniting</strong></td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Explosion limits</strong></td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Lower</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Upper</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Density at 20 °C</strong></td>
<td>~1.1 g/cm³</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with Water</strong></td>
<td>Fully miscible</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water)</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
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</tr>
<tr>
<td><strong>Dynamic</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Kinematic</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Solvent content</strong></td>
<td>0.00 %</td>
</tr>
<tr>
<td><strong>VOC content</strong></td>
<td>0.0 g/l / 0.00 lb/gal</td>
</tr>
</tbody>
</table>
10 Stability and reactivity

- Reactivity: Stable
- 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: Heat
- Incompatible materials: Do not mix with anything other than MTA Powder
- Hazardous decomposition products:
  - Nitrogen oxides
  - Silicon dioxide
  - Carbon monoxide and carbon dioxide

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
  - on the skin: May irritate skin.
  - on the eye: May irritate eyes.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
  - Inhalation: Mild irritant
  - Target Organ(s): Lung
  - The product is not subject to classification according to internally approved calculation methods for preparations:
  - When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    - None of the ingredients is listed.
  - NTP (National Toxicology Program)
    - None of the ingredients is listed.
  - 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.
13 Disposal considerations

- Waste treatment methods
  - Recommendation: Do not allow product to reach sewage system.

- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.
  - Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- UN-Number
  - DOT, IMDG, IATA: not regulated

- UN proper shipping name
  - DOT, IMDG, IATA: not regulated

- Transport hazard class(es)
  - DOT, ADN, IMDG, IATA: not regulated

- Packing group
  - DOT, IMDG, IATA: not regulated

- Environmental hazards:
  - Not applicable.

- Special precautions for user:
  - Not applicable.

- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
  - Not applicable.

- UN "Model Regulation":
  - not regulated

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):
    None of the ingredients is listed.

  - Hazardous Air Pollutants:
    None of the ingredients is listed.
### 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:** 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)** None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)** None of the ingredients is listed.

### GHS label elements

- **Void**

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

- **Chemical safety assessment:** Device is biocompatible when used as directed by dental professionals per ISO 10993-1

### 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.

- **Department issuing SDS:** Regulatory Affairs
- **Contact:** Customer Service
- **Date of preparation / last revision** 02/06/2020 / -
- **Abbreviations and acronyms:**
  - 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)
  - VOC: Volatile Organic Compounds (USA, EU)
  - 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