Material Safety Data Sheet

IDENTITY (As Used on Label and List)
KETAC-CEM radiopaque powder

Section I
Manufacturer's Name
ESPE Dental AG
Address (Number, Street, City, State, and ZIP Code)
D-82229 Seefeld/Oberbay., Germany
USA: ESPE America, Inc.
P.O. Box 111
Norristown, PA 19404

Emergency Telephone Number
1-800-344-8235
Telephone Number for Information
1-800-344-8235
Date Prepared
05/01/98
Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information
Hazardous Components (Specific Chemical Identity; Common Name(s))

OSHA PEL  ACGIH TLV Other Limits Recommended % (optional)

NA

Section III - Physical/Chemical Characteristics
Boiling Point
NA
Vapor Pressure (mm Hg)
NA
Vapor Density (AIR = 1)
NA
Solubility in Water
Insoluble
Appearance and Odor
White, odorless powder

Section IV - Fire and Explosion Hazard Data
Flash Point (Method Used)
NA
Extinguishing Media
Sand, CO₂, dry chemical

Special Fire Fighting Procedures
Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

Unusual Fire and Explosion Hazards
During a fire irritating gases may develop.

Section V - Reactivity Data
Stability Unstable ☐ Stable ■
Conditions to Avoid

Incompatibility (Materials to Avoid)
None
Hazardous Decomposition or Byproducts
NE

Hazardous May Occur ☐ May Occur
Polymerization Will not Occur ■
Section VI - Health Hazard Data

Route(s) of Entry:

- Inhalation?
  May be possible
- Ingestion?
  May inadvertently be possible

Skin?
NE

Health Hazards (Acute and Chronic)

Contact with eyes may cause irritation due to foreign body reaction.

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?
NA NA NA

Signs and Symptoms of Exposure
See "Health Hazards"

Medical Conditions Generally Aggravated by Exposure
Unknown

Emergency and First Aid Procedures

- Eye contact: Flush promptly with flowing water. If irritation develops, consult a physician.
- Skin contact: Wash area with mild soap and water.
- Inhalation: NR
- Ingestion: Drink plenty of water.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled
Scoop up and discard in a suitable container.

Waste Disposal Method
Disposal must be carried out in accordance with federal, state and local regulations.

Precautions to be Taken in Handling and Storing
Do not store above 77° F. Store in a dry area away from foodstuff and beverages.

Other Precautions
Handling of the product exclusively by dental specialists according to the instructions for use.

Section VIII - Control Measures

Respiratory Protection (Specify Type)
NR

Ventilation Local Exhaust Special
NR
Mechanical (General) Other

Protective Gloves
NR

Other Protective Clothing of Equipment
NR

Work/Hygienic Practices
Avoid eye contact and ingestion.

Do not eat, drink or smoke when using.

PLEASE NOTE
This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of ESPE Germany. The data on this sheet relates only to the specific material designated herein. ESPE Germany assumes no legal responsibility for use or reliance upon this data.

KETAC-CEM radiopaque powder
Material Safety Data Sheet

IDENTITY (As Used on Label and List)
KETAC-CEM radiopaque liquid

Section I
Manufacturer’s Name  
ESPE Dental AG
Address (Number, Street, City, State, and ZIP Code)  
D-82229 Seefeld/Oberbay., Germany
USA: ESPE America, Inc.  
P.O. Box 111  
Norristown, PA 19404

Emergency Telephone Number  
1-800-344-8235
Telephone Number for Information  
1-800-344-8235
Date Prepared  
05/01/98
Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Components (Specific Chemical Identity; Common Name(s))</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits Recommended</th>
<th>% (optional)</th>
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</thead>
<tbody>
<tr>
<td>Tartaric acid</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>15 - 20</td>
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</tbody>
</table>

Section III - Physical/Chemical Characteristics

- Boiling Point  
  212 °F
- Vapor Pressure (mm Hg)  
  17 mm Hg at 68 °F
- Vapor Density (AIR = 1)  
  Below 1.0
- Solubility in Water  
  Miscible
- Appearance and Odor  
  Colorless liquid, slightly acidic odor

Specific Gravity (H₂O = 1)  
Above 1.0
Melting Point  
NE
Evaporation Rate  
(Butyl Acetate = 1) About 1.0

Section IV - Fire and Explosion Hazard Data

- Flash Point (Method Used)  
  NA
- Extinguishing Media  
  Sand, CO₂, dry chemical
- Special Fire Fighting Procedures  
  Fire fighters should wear full protective clothing including a self-contained breathing apparatus.
  Unusual Fire and Explosion Hazards  
  During a fire irritating gases may develop.

Flammable Limits  
NA
LEL  
UEL

Section V - Reactivity Data

- Stability  
  Unstable  
  Stable
- Conditions to Avoid

Incompatibility (Materials to Avoid)  
None
Hazardous Decomposition or Byproducts  
NE

- Hazardous  
  May Occur  
  May Occur
- Polymerization  
  Will not Occur
Section VI - Health Hazard Data

Route(s) of Entry:

Inhalation?
NA

Ingestion?
May inadvertently be possible

Skin?
NE

Health Hazards (Acute and Chronic)

Contact with eyes causes irritation.
Ingestion may cause local irritation.

Carcinogenicity: —
NTP?
NE

IARC Monographs?
NE

OSHA Regulated?
NE

Signs and Symptoms of Exposure
See "Health Hazards"

Medical Conditions Generally Aggravated by Exposure
Unknown

Emergency and First Aid Procedures

Eye contact: ~ Flush promptly with flowing water. If irritation develops, consult a physician.

Skin contact: Wash area with mild soap and water.

Inhalation: NR

Ingestion: Drink plenty of water. If irritation develops, consult a physician.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled
Absorb with inert material and discard in a marked container.

Waste Disposal Method
Disposal must be carried out in accordance with federal, state and local regulations.

Precautions to be Taken in Handling and Storing
Do not store above 77° F. Store in a dry area away from foodstuff and beverages.

Other Precautions
Handling of the product exclusively by dental specialists according to the instructions for use.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

NR

Ventilation Local Exhaust Special

NR

Mechanical (General) Other

Protective Gloves Eye Protection

Required Safety goggles

Other Protective Clothing of Equipment

NR

Work/Hygienic Practices
Avoid eye and skin contact and ingestion.

Do not eat, drink or smoke when using.

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KETAC-CEM radiopaque liquid