

### 1. Identification

**Product name:** Tubli-Seal™ Accelerator

**Recommended use:** Dental product: Endodontic Obturation Systems and Fill Products

**Restrictions on use:** Restricted to professional users

**Manufacturer:** Kerr Corporation  
1717 W. Collins Ave.  
Orange, CA 92867-5422 - U.S.A.  
T 1-800-841-1428 (Customer Service)

**Emergency number:** (Chemical Spills, Leaks, Fire, Exposure or Accident only):  
CHEMTREC 1-800-424-9300 (in the US), 1-703-527-3887 (Outside the US)

**Issue date:** 12/21/2020

### 2. Hazard(s) identification

**Classification:**

Physical hazards	Health hazards
Not classified	Eye irritation Category 2 Skin sensitization, Category 1B

**GHS US labeling:**

Warning!



Hazard statements (GHS US)	Precautionary statements (GHS US)
H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation	P261 - Avoid breathing dust, vapors. P264 - Wash hands thoroughly after handling. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear eye protection, protective gloves. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P302+P352 - If on skin: Wash with plenty of water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. P501 - Dispose of contents or container to hazardous or

special waste collection point, in accordance with local, regional, national and/or international regulation

### 3: Composition/Information on ingredients

Component	CAS-No.	Amount (%)
Eugenol	97-53-0	30-60
Thymol iodide	552-22-7	5-30

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

### 4. First-aid measures

**Inhalation:** Move the affected person to the fresh air. Get medical attention if symptoms occur.

**Skin:** Wash immediately with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

**Eyes:** Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion:** Call a poison center or a doctor if you feel unwell.

**Symptoms/effects:** May cause moderate irritation to the eyes. May cause an allergic skin reaction. Ingestion may cause nausea, vomiting and diarrhea.

**Immediate medical attention and special treatment, if necessary:** Not required.

### 5. Fire-fighting measures

**Suitable extinguishing media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable extinguishing media:** None.

**Fire hazard:** This product is not classified as flammable or combustible. On combustion releases: Carbon oxides (CO, CO<sub>2</sub>). Halogenated compounds.

**Special protective equipment and precautions for fire-fighters:** Cool down the containers exposed to heat with a water spray. Prevent runoff from entering water courses, sewers and basements. Do not attempt to take action without suitable protective equipment.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Avoid contact with eyes, skin and clothing. Wear suitable protective clothing. Do not breathe dust. Do not breathe vapors. Ventilate area.

**Methods and material for containment and cleaning up:** Do not touch or walk on the spilled product. Absorb with an inert material and place in an appropriate waste disposal container. Avoid dust formation. Notify authorities if product enters sewers or public waters. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

### 7. Handling and storage

**Precautions for safe handling:** Avoid contact with eyes, skin and clothing. Wash hands with water and soap. Avoid breathing dust, vapors. Ensure adequate ventilation.

**Storage conditions:** Store in dry, cool, well-ventilated area. Keep away from heat and direct sunlight. Keep only in original container. Keep container closed when not in use.

<b>8. Exposure controls/personal protection</b>
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<b>Exposure guidelines:</b>	
Eugenol	None established.
Thymol iodide	None established.

**Appropriate engineering controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Environmental exposure controls:** Avoid release to the environment.

**Personal protective equipment:**

**Hand protection:** Wear impervious gloves.

**Eye protection:** Use suitable eye protection. Chemical goggles or safety glasses

**Skin and body protection:** Wear suitable protective clothing

**Respiratory protection:** No respiratory protection needed under normal use conditions. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

<b>9. Physical and chemical properties</b>
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**Appearance:** Paste.

<p><b>Physical state</b> : Solid</p> <p><b>Color</b> : Amber</p> <p><b>Odor</b> : Aromatic</p> <p><b>Odor threshold</b> : No data available</p> <p><b>pH</b> : No data available</p> <p><b>Melting point</b> : No data available</p> <p><b>Freezing point</b> : Not applicable</p> <p><b>Boiling point</b> : No data available</p> <p><b>Flash point</b> : Not applicable</p> <p><b>Relative evaporation rate (butyl acetate=1)</b> : No data available</p> <p><b>Flammability (solid, gas)</b> : Non flammable.</p> <p><b>Vapor pressure</b> : No data available</p> <p><b>Relative vapor density at 20 °C</b> : No data available</p> <p><b>Relative density</b> : &gt; 1</p>	<p><b>Solubility</b> : Insoluble in water.</p> <p><b>Partition coefficient n-octanol/water (Log Pow)</b> : No data available</p> <p><b>Auto-ignition temperature</b> : Not applicable</p> <p><b>Decomposition temperature</b> : No data available</p> <p><b>Viscosity, kinematic</b> : No data available</p> <p><b>Viscosity, dynamic</b> : No data available</p> <p><b>Explosion limits</b> : Not applicable</p> <p><b>Explosive properties</b> : No data available</p> <p><b>Oxidizing properties</b> : No data available</p>
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No additional information available

## 10. Stability and reactivity

**Reactivity:** The product is non-reactive under normal conditions of use, storage and transport.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** No dangerous reactions known under normal conditions of use.

**Conditions to avoid:** Avoid high temperatures.

**Incompatible materials:** Keep away from oxidizers, strong acids and strong bases.

**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

**Inhalation:** Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.

**Skin:** May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

**Eyes:** May cause moderate irritation, including burning sensation, tearing, redness or swelling.

**Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Chronic symptoms:** None known.

**Carcinogenicity:** Not classified

Eugenol: IARC 3 - Not classifiable;

Thymol iodide: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

**Germ cell mutagenicity:** Not classified

**Reproductive toxicity:** Not classified

**Numerical measures of toxicity:**

**The following are the toxicity values for the components:**

Eugenol: Oral rat LD50- > 2000 mg/kg;

Thymol iodide: Oral rat LD50- > 2000 mg/kg;

**Skin corrosion/irritation** Not classified

**Serious eye damage/irritation** Causes serious eye irritation.

**Respiratory or skin sensitization** May cause an allergic skin reaction.

**STOT-single exposure** Not classified

**STOT-repeated exposure** Not classified

## 12. Ecological information

**Ecology - general:** Toxic to aquatic life.

**Ecotoxicity:**

Eugenol 13 mg/L Fish LC50; 1.13 mg/L Daphnia EC50; 24 mg/L Algae ErC50

Thymol iodide 100 mg/L Daphnia EC50

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Other adverse effects:**

No data available

**13. Disposal considerations**

**Regional legislation (waste):** Dispose of in accordance with applicable federal, state, and local regulations.

**14. Transport information**

**Department of Transportation (DOT)**

Not regulated for transport

**Transport by sea**

Not regulated for transport

**Air transport**

Not regulated for transport

**15. Regulatory information**

**SARA Section 313 - Emission Reporting:** Not subject to reporting requirements of the United States SARA Section 313

**CERCLA Section 103:**

This product is not subject to reporting under CERLCA. However, many states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA 302:**

Not applicable

**SARA Section 311/312 Hazard Classes:** Refer to Section 2 for OSHA Hazard Classification.

**TSCA:** All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

**INTERNATIONAL INVENTORIES**

- Australia AICS:** All the components are listed.
- Canada DSL:** All the components are listed.
- China IECSC:** One or more ingredient(s) are not listed
- EU EINECS:** All the components are listed.
- Japan ENCS:** One or more ingredient(s) are not listed
- Korea KECL:** One or more ingredient(s) are not listed
- New Zealand:** All the components are listed.
- Philippines PICCS:** One or more ingredient(s) are not listed
- Taiwan CSNN** One or more ingredient(s) are not listed

**16. Other information**

Revision date : 12/21/2020

<b>NFPA</b>	
NFPA health hazard:	2
NFPA fire hazard:	0
NFPA reactivity:	0

**NOTICE**

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, KERR Corporation makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.

### 1. Identification

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**Issue date:** 12/21/2020

### 2. Hazard(s) identification

**Classification:**

Physical hazards	Health hazards
Not classified	Not classified

**GHS US labeling:**

No labeling applicable

### 3: Composition/Information on ingredients

Component	CAS-No.	Amount (%)
Zinc oxide	1314-13-2	60-100
White Mineral Oil (Petroleum)	8042-47-5	5-30
Barium Sulfate	7727-43-7	5-30
Starch	9005-25-8	1-5

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

### 4. First-aid measures

**Inhalation:** Move the affected person to the fresh air. Get medical attention if symptoms occur.

**Skin:** Gently wash with plenty of soap and water. Get medical advice if skin irritation persists.

**Eyes:** Rinse eyes with water as a precaution. Get medical attention if irritation develops and persists.

**Ingestion:** Call a poison center or a doctor if you feel unwell.

**Symptoms/effects:** May cause minor eye irritation. Repeated exposure may cause skin dryness or cracking. Ingestion may cause nausea, vomiting and diarrhea.

**Immediate medical attention and special treatment, if necessary:** Not required.

## 5. Fire-fighting measures

**Suitable extinguishing media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable extinguishing media:** None.

**Fire hazard:** This product is not classified as flammable or combustible. On combustion releases: Carbon oxides (CO, CO<sub>2</sub>). Sulfur dioxide. Metallic oxides.

**Special protective equipment and precautions for fire-fighters:** Cool down the containers exposed to heat with a water spray. Prevent runoff from entering water courses, sewers and basements. Do not attempt to take action without suitable protective equipment.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Avoid contact with eyes, skin and clothing. Wear suitable protective clothing. Do not breathe dust. Do not breathe vapors. Ventilate area.

**Methods and material for containment and cleaning up:** Do not touch or walk on the spilled product. Absorb with an inert material and place in an appropriate waste disposal container. Avoid dust formation. Notify authorities if product enters sewers or public waters. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

## 7. Handling and storage

**Precautions for safe handling:** Avoid contact with eyes, skin and clothing. Wash hands with water and soap. Avoid breathing dust, vapors. Ensure adequate ventilation.

**Storage conditions:** Store in dry, cool, well-ventilated area. Keep away from heat and direct sunlight. Keep only in original container. Keep container closed when not in use.

## 8. Exposure controls/personal protection

<b>Exposure guidelines:</b>	
White Mineral Oil (Petroleum)	5 mg/m <sup>3</sup> TWA OSHA PEL; 5 mg/m <sup>3</sup> (I - Inhalable particulate matter) TWA ACGIH TLV;
Zinc oxide	5 mg/m <sup>3</sup> (Fume) 15 mg/m <sup>3</sup> (Total dust), 5 mg/m <sup>3</sup> (Respirable fraction) TWA OSHA PEL; 2 mg/m <sup>3</sup> (R - Respirable particulate matter) TWA ACGIH TLV; 10 mg/m <sup>3</sup> (R - Respirable particulate matter) STEL ACGIH TLV;
Barium Sulfate	15 mg/m <sup>3</sup> (Total dust), 5 mg/m <sup>3</sup> (Respirable fraction) TWA OSHA PEL; 5 mg/m <sup>3</sup> (I - Inhalable particulate matter, E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica) TWA ACGIH TLV;
Starch	15 mg/m <sup>3</sup> (Total dust), 5 mg/m <sup>3</sup> (Respirable fraction) TWA OSHA PEL; 10 mg/m <sup>3</sup> TWA ACGIH TLV;

**Appropriate engineering controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.



**Environmental exposure controls:** Avoid release to the environment.

**Personal protective equipment:**

**Hand protection:** None under normal conditions. In case of repeated or prolonged contact wear gloves

**Eye protection:** None under normal conditions. In case of dust production: protective goggles

**Skin and body protection:** None under normal conditions

**Respiratory protection:** No respiratory protection needed under normal use conditions. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**9. Physical and chemical properties**

**Appearance:** Paste.

<b>Physical state</b>	: Solid	<b>Solubility</b>	: Insoluble in water.
<b>Color</b>	: white	<b>Partition coefficient n-octanol/water (Log Pow)</b>	: No data available
<b>Odor</b>	: Odorless	<b>Auto-ignition temperature</b>	: Not applicable
<b>Odor threshold</b>	: No data available	<b>Decomposition temperature</b>	: No data available
<b>pH</b>	: No data available	<b>Viscosity, kinematic</b>	: > 20.5 mm <sup>2</sup> /s
<b>Melting point</b>	: No data available	<b>Viscosity, dynamic</b>	: No data available
<b>Freezing point</b>	: Not applicable	<b>Explosion limits</b>	: Not applicable
<b>Boiling point</b>	: No data available	<b>Explosive properties</b>	: No data available
<b>Flash point</b>	: Not applicable	<b>Oxidizing properties</b>	: No data available
<b>Relative evaporation rate (butyl acetate=1)</b>	: No data available		
<b>Flammability (solid, gas)</b>	: Non flammable.		
<b>Vapor pressure</b>	: No data available		
<b>Relative vapor density at 20 °C</b>	: No data available		
<b>Relative density</b>	: > 1		

No additional information available

**10. Stability and reactivity**

**Reactivity:** The product is non-reactive under normal conditions of use, storage and transport.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** No dangerous reactions known under normal conditions of use.

**Conditions to avoid:** Avoid high temperatures.

**Incompatible materials :** Keep away from oxidizers, strong acids and strong bases.

**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**11. Toxicological information**

**Inhalation:** Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.

**Skin:** May cause slight irritation to the skin. Repeated exposure may cause skin dryness or cracking.

**Eyes:** Dust from this product may cause eye irritation.

**Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

<b>Carcinogenicity:</b>	Not classified
White Mineral Oil (Petroleum):	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Zinc oxide:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Barium Sulfate:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Starch:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
<b>Germ cell mutagenicity:</b>	Not classified
<b>Reproductive toxicity:</b>	Not classified

**Numerical measures of toxicity:**

**The following are the toxicity values for the components:**

White Mineral Oil (Petroleum):	Oral rat LD50- > 5000 mg/kg; Dermal rabbit LD50- > 2000 mg/kg;
Zinc oxide:	Oral rat LD50- > 5000 mg/kg; Dermal rat LD50- > 2000 mg/kg;
Barium Sulfate:	Oral rat LD50- > 5000 mg/kg; Dermal rat LD50- > 2000 mg/kg;
Starch:	No data available
<b>Skin corrosion/irritation</b>	Not classified
<b>Serious eye damage/irritation</b>	Not classified
<b>Respiratory or skin sensitization</b>	Not classified
<b>STOT-single exposure</b>	Not classified
<b>STOT-repeated exposure</b>	Not classified

<b>12. Ecological information</b>
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**Ecology - general:** Very toxic to aquatic life with long lasting effects.

**Ecotoxicity:**

White Mineral Oil (Petroleum)	100 mg/L Fish LC50; 100 mg/L Daphnia EC50
Zinc oxide	0.78 mg/L Fish LC50; 0.147 mg/L Daphnia EC50
Barium Sulfate	97.5 mg/L Fish LC50; 14.5 mg/L Daphnia EC50; 30.1 mg/L Algae ErC50

**Persistence and degradability:** No data available

Zinc oxide: Biodegradation is not applicable to inorganic compounds.

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Other adverse effects:**

No data available

<b>13. Disposal considerations</b>
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**Regional legislation (waste):** Dispose of in accordance with applicable federal, state, and local regulations.

<b>14. Transport information</b>
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**Department of Transportation (DOT)**

**Proper Shipping Name (DOT)** : Environmentally hazardous substances, liquid, n.o.s. (Zinc oxide)  
**UN-No.(DOT)** : UN3082  
**Class (DOT)** : 9  
**Packing group (DOT)** : III  
**Hazard labels (DOT)** : Class 9 (Miscellaneous dangerous materials)  
**Dangerous for the environment** : Yes

**Transport by sea**

**Proper Shipping Name (IMDG)** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Zinc oxide)  
**UN-No. (IMDG)** : 3082  
**Class (IMDG)** : 9  
**Packing group (IMDG)** : III  
**Marine pollutant** : Yes

**Air transport**

**Proper Shipping Name (IATA)** : Environmentally hazardous substance, liquid, n.o.s. (Zinc oxide)  
**UN-No. (IATA)** : 3082  
**Class (IATA)** : 9  
**Packing group (IATA)** : III

<b>15. Regulatory information</b>
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**SARA Section 313 - Emission Reporting:** Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Zinc oxide	1314-13-2	60-100%
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**CERCLA Section 103:**

This product is not subject to reporting under CERLCA. However, many states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA 302:**

Not applicable

**SARA Section 311/312 Hazard Classes:** Refer to Section 2 for OSHA Hazard Classification.

**TSCA:** All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

**INTERNATIONAL INVENTORIES**

**Australia AICS:** All the components are listed.  
**Canada DSL:** All the components are listed.  
**China IECSC:** All the components are listed.

**EU EINECS:** All the components are listed.  
**Japan ENCS:** One or more ingredient(s) are not listed  
**Korea KECL:** All the components are listed.  
**New Zealand:** All the components are listed.  
**Philippines PICCS:** All the components are listed.  
**Taiwan CSNN** One or more ingredient(s) are not listed

**16. Other information**

Revision date : 12/21/2020

<b>NFPA</b>	
NFPA health hazard:	1
NFPA fire hazard:	0
NFPA reactivity:	0

**NOTICE**

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, KERR Corporation makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.