■ MENRY SCHEIN® —

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 09/08/2014 Version: 1.0

### **SECTION 1: Identification**

### 1.1. Product identifier

Product form : Mixture

Product name : ZOE Temporary Cement Base

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For temporary restorative treatment. For professional dental use only.

### 1.3. Details of the supplier of the safety data sheet

Henry Schein, Inc. 135 Duryea Road Melville, NY 11747

Telephone: 1-800-424-9300 www.henryschein.com

### 1.4. Emergency telephone number

Emergency number : 800-424-9300 CHEMTREC; 1-703-527-3887 CHEMTREC - Outside USA

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### **Classification (GHS-US)**

Not classified

#### 2.2. Label elements

### **GHS-US labeling**

No labeling applicable

#### 2.3. Other hazards

Aquatic Chronic 1 H410 Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements : P273 - Avoid release to the environment.

(GHS-US) P391 - Collect spillage.

P501 - Dispose of contents/container according to local, regional, national, and

international regulations.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

### 3.2. Mixture

Not classified as hazardous according to the US 2012 Hazard Communication Standard (29 CFR 1910.1200).

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell,

seek medical advice (show the label where possible).

First-aid measures after inhalation : Not expected to present a significant inhalation hazard under anticipated

conditions of normal use.

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First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least

15 minutes. Wash contaminated clothing before reuse. Seek medical

attention if ill effect or irritation develops.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON CENTER

or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : None expected under normal conditions of use. Symptoms/injuries after inhalation : None expected under normal conditions of use. Symptoms/injuries after eye contact : None expected under normal conditions of use. : None expected under normal conditions of use.

Symptoms/injuries after ingestion : May be harmful if swallowed.

### 4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention.

# **SECTION 5: Fire-Fighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder, alcohol foam, carbon dioxide, water spray, fog.

Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread

fire.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Not considered flammable but may burn at high temperatures.

Explosion hazard : Product is not explosive. Reactivity : No reactivity hazard.

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire. Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including

respiratory protection.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all contact with skin, eyes, or clothing.

6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Absorb and/or contain spill with inert material, then place in suitable

container.

Methods for cleaning up : Clear up spills immediately and dispose of waste safely.

### 6.4. Reference to other sections

See heading 8, Exposure Controls and Personal Protection.

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# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.

Wash hands and other exposed areas with mild soap and water before

eating, drinking, or smoking and again when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Keep container closed when

not in use.

Incompatible products : Strong acids. Strong bases. Strong oxidizers.

### 7.3. Specific end use(s)

For temporary restorative treatment. For professional dental use only.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Not applicable

#### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of any potential exposure.

Personal protective equipment : Safety glasses. Gloves. Protective clothing.







Hand protection : Wear chemically resistant protective gloves.

Eye protection : Chemical goggles or safety glasses. Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Use a NIOSH-approved respirator or self-contained breathing apparatus

whenever exposure may exceed established Occupational Exposure Limits.

Other information : When using, do not eat, drink or smoke.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid (paste) **Appearance** : No data available : No data available Color Odor : No data available Odor threshold : No data available : No data available Relative evaporation rate (butyl acetate=1) : No data available : No data available Melting point Freezing point : No data available **Boiling** point : No data available Flash point : No data available **Auto-ignition Temperature** : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available : No data available Relative density : No data available Solubility

Partition coefficient: n-octanol/water

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: No data available

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Viscosity No data available

### 9.2. Other information

VOC content : < 1 %

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No reactivity hazard.

#### 10.2. Chemical stability

Product is stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

#### 10.6. Hazardous decomposition products

Hydrocarbons. Carbon oxides (CO, CO<sub>2</sub>). Oxides of zinc.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified
Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : None expected under normal conditions of use. Symptoms/injuries after skin contact : None expected under normal conditions of use. Symptoms/injuries after eye contact : None expected under normal conditions of use.

Symptoms/injuries after ingestion : May be harmful if swallowed.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

No additional information available

## 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

# 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national,

provincial, territorial and international regulations.

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## **SECTION 14: Transport information**

In accordance with DOT / IMDG / IATA

### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

No additional information available

#### 14.3. Additional information

Transport by sea

No additional information available

Air transport

No additional information available

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

No additional information available

#### 15.2. US State regulations

No additional information available

# SECTION 16: Other information, including date of preparation or last revision

Revision date : 09/08/2014

Other information : This document has been prepared in accordance with the SDS requirements

of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Full text of H-phrases: see section 16:

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom 2012) - US

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Version: 1.0

## **SECTION 1: Identification**

### 1.1. Product identifier

Product form : Mixture

Product name : ZOE Temporary Cement Catalyst

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For temporary restorative treatment. For professional dental use only.

### 1.3. Details of the supplier of the safety data sheet

Henry Schein, Inc. 135 Duryea Road Melville, NY 11747

Telephone: 1-800-424-9300 www.henryschein.com

### 1.4. Emergency telephone number

Emergency number : 800-424-9300 CHEMTREC; 1-703-527-3887 CHEMTREC - Outside USA

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### **Classification (GHS-US)**

Eye Irrit. 2A H319 Skin Sens. 1 H317

#### 2.2. Label elements

#### **GHS-US labeling**

Hazard pictograms (GHS-US)



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing mist, vapors, fume.

P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the

workplace.

P280 - Wear eye protection, protective gloves, protective clothing. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 - If in eyes: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment (see Section 4).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P501 - Dispose of contents/container according to local, regional, national,

and international regulations.

### 2.3. Other hazards

No data available

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

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# **SECTION 3: Composition/information on ingredients**

### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Eugenol	(CAS No) 97-53-0	20 - 30	Acute Tox. 4 (Oral), H302
			Eye Irrit. 2A, H319
			Skin Sens. 1, H317

Full text of H-phrases: see section 16

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell,

seek medical advice (show the label where possible).

First-aid measures after inhalation : Not expected to present a significant inhalation hazard under anticipated

conditions of normal use.

First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least

15 minutes. Wash contaminated clothing before reuse. Seek medical

attention if ill effect or irritation develops.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON CENTER

or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

doctor/physician.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Exposure may produce an allergic reaction. Causes severe irritation to eyes.

Symptoms/injuries after inhalation : None expected under normal conditions of use.

Symptoms/injuries after skin contact : May cause an allergic skin reaction.

Symptoms/injuries after eye contact : Causes eye irritation.

Symptoms/injuries after ingestion : May be harmful if swallowed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention.

### **SECTION 5: Fire-Fighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder, alcohol foam, carbon dioxide, water spray, fog.

Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread

fire.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Not considered flammable but may burn at high temperatures.

Explosion hazard : Product is not explosive. Reactivity : No reactivity hazard.

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire. Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including

respiratory protection.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all contact with skin, eyes, or clothing.

6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).

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Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Absorb and contain spill with inert material, then place in suitable container.

Methods for cleaning up : Clear up spills immediately and dispose of waste safely.

#### 6.4. Reference to other sections

See heading 8, Exposure Controls and Personal Protection.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.

Wash hands and other exposed areas with mild soap and water before

eating, drinking, or smoking and again when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place. Keep container closed when

not in use.

Incompatible products : Strong acids. Strong bases. Strong oxidizers.

#### 7.3. Specific end use(s)

For temporary restorative treatment. For professional dental use only.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of any potential exposure.

Personal protective equipment : Safety glasses. Gloves. Protective clothing.







Hand protection : Wear chemically resistant protective gloves.

Eye protection : Chemical goggles or safety glasses. Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Use a NIOSH-approved respirator or self-contained breathing apparatus

whenever exposure may exceed established Occupational Exposure Limits.

Other information : When using, do not eat, drink or smoke.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid (paste) : No data available **Appearance** Color : No data available Odor : No data available Odor threshold : No data available : No data available Relative evaporation rate (butyl acetate=1) : No data available : No data available Melting point Freezing point : No data available

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Boiling point : No data available : No data available Flash point **Auto-ignition Temperature** : No data available : No data available Decomposition temperature Flammability (solid, gas) : No data available : No data available Vapor pressure Relative vapor density at 20 °C : No data available Relative density : No data available Solubility : No data available : No data available Partition coefficient: n-octanol/water No data available Viscosity

9.2. Other information

VOC content : < 1 %

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No reactivity hazard.

#### 10.2. Chemical stability

Product is stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Skin corrosion/irritation

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

### 10.6. Hazardous decomposition products

Hydrocarbons. Carbon oxides (CO, CO<sub>2</sub>).

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Eugenol (97-53-0)	
LD50 oral rat	1930 mg/kg

Serious eye damage/irritation : Causes serious eye irritation. Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Eugenol (97-53-0)	
IARC group	3

: Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : None expected under normal conditions of use.

: Not classified

Symptoms/injuries after skin contact : May cause an allergic skin reaction.

Symptoms/injuries after eye contact : Causes eye irritation.

Symptoms/injuries after ingestion : May be harmful if swallowed.

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# **SECTION 12: Ecological information**

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national,

provincial, territorial and international regulations.

# **SECTION 14: Transport information**

In accordance with DOT / IMDG / IATA

#### 14.1. UN number

Not applicable

### 14.2. UN proper shipping name

No additional information available

#### 14.3. Additional information

**Transport by sea** No additional information available **Air transport** No additional information available

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

ZOE Temporary Cement Catalyst		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
	Delayed (chronic) health hazard	
Eugenol (97-53-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

# 15.2. US State regulations No additional information available

## SECTION 16: Other information, including date of preparation or last revision

Revision date : 09/08/2014

Other information : This document has been prepared in accordance with the SDS requirements

of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Full text of H-phrases: see section 16:

SDS US (GHS HazCom 2012) - US

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Sens. 1	Skin sensitization Category 1
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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