

# SAFETY DATA SHEET

Temp-Bond Accelerator

## Section 1. Identification

GHS product identifier

: Temp-Bond Accelerator

Other means of identification

: Not available.

Product type

Paste.

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

Product use

: Dental product: Temporary cement

Area of application

Professional applications.

Manufacturer

Kerr Corporation

1717 West Collins Avenue Orange, CA 92867-5422

Telephone no.: 1-800-KERR-123

e-mail address of person responsible for this SDS

: edwin.varela@kavokerrgroup.com

Emergency telephone number (with hours of operation)

CHEMTREC® (24 hours) U.S.: 1-800-424-9300 International: +1-703-527-3887

## Section 2. Hazards identification

OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Health effects are based on the uncured material.

Classification of the substance or mixture : EYE IRRITATION - Category 2A

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1.4%

**GHS label elements** 

Hazard pictograms



Signal word

Warning

Hazard statements

: Causes serious eye irritation.

Precautionary statements

Prevention

: Wear eye or face protection. Wash hands thoroughly after handling.

Response

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

: Not applicable.

Storage Disposal

classified

: Not applicable.

Hazards not otherwise

Date of issue/Date of revision

None known.

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# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of

: Not available.

identification

#### CAS number/other identifiers

CAS number

: Not applicable.

Product code

: Not available.

Ingredient name	Other names	%	CAS number
eugenol	eugenol	30-60	97-53-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

## Section 4. First aid measures

### Description of necessary first aid measures

Eye contact

: No special measures are required. In case of contact with eyes, rinse immediately with

plenty of water. Get medical attention if symptoms occur.

Inhalation

No special measures required. If inhaled, remove to fresh air. Get medical attention if

symptoms occur.

Skin contact

No special measures required. In case of contact, immediately flush skin with plenty of

water. Get medical attention if symptoms occur.

Ingestion

Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Get medical attention if adverse health effects persist or

are severe.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact

: Causes serious eye irritation.

Inhalation

: No known significant effects or critical hazards.

Skin contact

: No known significant effects or critical hazards.

Ingestion

: Irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms

Eye contact

: Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation

: No specific data.

Skin contact

: No specific data.

Ingestion

: No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

: In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing

aid to give mouth-to-mouth resuscitation.

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### Section 4. First aid measures

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire. : Do not use water jet.

Specific hazards arising from the chemical

Hazardous thermal decomposition products : In a fire or if heated, a pressure increase will occur and the container may burst.

Decomposition products may include the following materials: carbon dioxide carbon monoxide

Special protective actions for fire-fighters

: In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely

For emergency responders: Low release. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Low release. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up

Small spill

: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

Large spill

: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

# Section 7. Handling and storage

### <u>Precautions for safe handling</u>

Protective measures

: No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose in a safe manner.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Section 7. Handling and storage

Conditions for safe storage, : including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

#### Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

Environmental exposure controls

No special measures are required for small quantities under normal and intended

conditions of product use.

: No special measures are required for small quantities under normal and intended conditions of product use.

### Individual protection measures

Hygiene measures

: No special measures are required for small quantities under normal and intended conditions of product use.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: No special measures are required for small quantities under normal and intended conditions of product use.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: No special measures are required for small quantities under normal and intended conditions of product use.

# Section 9. Physical and chemical properties

Appearance

Physical state

: Liquid [Paste.]

Color ·

Amber. [Light]

Ödor Odor threshold Fatty acid Not available.

Not available.

Melting point

Not available.

**Boiling point** Flash point

Not available.

Evaporation rate

Not available. Not available.

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# Section 9. Physical and chemical properties

Flammability (solid, gas)

Not applicable.

Lower and upper explosive

: Not available.

(flammable) limits Vapor pressure

: Not available.

Vapor density

Not available.

Relative density

>1 [Water = 1]

Solubility

Insoluble in the following materials: cold water and hot water.

Solubility in water

Not available.

Partition coefficient: n-

Not available.

octanol/water

Auto-ignition temperature

: Not available.

Decomposition temperature

: Not available.

SADT

Not available.

Viscosity

: Not available.

# Section 10. Stability and reactivity

Reactivity

No specific test data related to reactivity available for this product or its ingredients.

Chemical stability

: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid

: Avoid excessive heat.

Incompatible materials

: No specific data.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

# Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

Acute toxicity	Result	Species	Dose	Exposure
Product/ingredient name	LD50 Oral	Rat	1930 mg/kg	-
eugenol		l		1 1100.00

Conclusion/Summary

Based on the criteria of the protocol, this product is considered cytotoxic per USP 23. Based on analysis and test results, this product is considered as biocompatible per EN ISO 7405:2008 and EN ISO 10993-1:2009.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Conclusion/Summary

Skin

: Kligman score: Grade I (weak sensitizer)

**Mutagenicity** 

Not available.

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## Section 11. Toxicological information

Conclusion/Summary

: No mutagenic effect:

#### Carcinogenicity

Not available.

Classification

Classification			
Product/ingredient name	OSHA	IARC	NTP
eugenol	-	3	

### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

Information on the likely

: Routes of entry anticipated: Oral, Dermal, Inhalation.

routes of exposure

Potential acute health effects

Eve contact

: Causes serious eye irritation.

Inhalation

: No known significant effects or critical hazards.

Skin contact

No known significant effects or critical hazards.

Ingestion

: Irritating to mouth, throat and stomach.

## Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation

No specific data.

Skin contact

: No specific data.

Ingestion-

No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects

: Not available.

#### Potential chronic health effects

Not available.

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## Section 11. Toxicological information

General

: No known significant effects or critical hazards.

Carcinogenicity

: No known significant effects or critical hazards.

Mutagenicity

: No known significant effects or critical hazards.

Teratogenicity

: No known significant effects or critical hazards.

Developmental effects

: No known significant effects or critical hazards.

Fertility effects

: No known significant effects or critical hazards.

### **Numerical measures of toxicity**

#### Acute toxicity estimates

Route	ATE value	
Olai	6166.1 mg/kg	

# Section 12. Ecological information

#### Toxicity

Product/ingredient name	Result	Species	Exposure
The state of the s	Acute LC50 24000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
eugenol	-	-	Readily

#### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
eugenol	2.27	-	low

### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

# Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	•
Transport hazard class(es)		-	}
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

# Section 15. Regulatory information

U.S. Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Acetic acid, zinc salt, hydrate (2:1:2) Clean Water Act (CWA) 311: Acetic acid, zinc salt, hydrate (2:1:2)

Clean Air Act Section 112

: Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602

: Not listed

Class | Substances Clean Air Act Section 602

Class II Substances

: Not listed

**DEA List I Chemicals** (Precursor Chemicals) : Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

### SARA 302/304

### Composition/information on ingredients

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification

: Immediate (acute) health hazard

Composition/information on ingredients

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# Section 15. Regulatory information

Name	%	1	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
eugenol	30-60	No.	No.	No.	Yes.	No.

### **SARA 313**

Not applicable.

### State regulations

Massachusetts

: None of the components are listed.

**New York** 

: None of the components are listed.

New Jersey

: None of the components are listed.

Pennsylvania

: None of the components are listed.

California Prop. 65

None of the components are listed.

## Section 16. Other information

## Hazardous Material Information System (U.S.A.)

Flammability	-
	)
Physical hazaros	)

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

## National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### <u>History</u>

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## Section 16. Other information

Key to abbreviations

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References

: HCS (U.S.A.)- Hazard Communication Standard

International transport regulations

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.