

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.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.
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Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

: Mixture

: Not available.

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. : No known significant effects or critical hazards. Skin contact : Irritating to mouth, throat and stomach. Ingestion **Over-exposure signs/symptoms** Eye contact : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : No specific data. : No specific data. Skin contact : No specific data. Ingestion 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. : In case of major fire and large quantities: No action shall be taken involving any Protection of first-aiders 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	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: 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, protect	tiv	e 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	1	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 co	ont	ainment 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

Precautions for safe handling

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,	1	Store in accordance with local regulations. Store in original container protected from
including any		direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials
incompatibilities		(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		No special measures are required for small quantities under normal and intended conditions of product use.
Environmental exposure controls	:	No special measures are required for small quantities under normal and intended conditions of product use.

Individual protection measure	<u>5</u>
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

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Evaporation rate	: Not available.	
Flash point	: Not available.	
Boiling point	: Not available.	
Melting point	: Not available.	
рН	: Not available.	
Odor threshold	: Not available.	
Odor	: Fatty acid	
Color	: Amber. [Light]	
Physical state	: Liquid. [Paste.]	
Appearance		

Section 9. Physical and chemical properties

Flammability (solid, gas)	:	Not applicable.
Lower and upper explosive	:	Not available.
(flammable) limits		
Vapor pressure	4	Not available.
Vapor density	1	Not available.
Relative density	1	>1 [Water = 1]
Solubility	1	Insoluble in the following materials: cold water and hot water.
Solubility in water	1	Not available.
Partition coefficient: n-	1	Not available.
octanol/water		
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	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.
Teactions	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

Product/ingredient name	Result	Species	Dose	Exposure
eugenol	LD50 Oral	Rat	1930 mg/kg	-
Conclusion/Summary	Based on analysis a	of the protocol, this prod nd test results, this produc EN ISO 10993-1:2009.		
Irritation/Corrosion				
Not available.				
Sensitization				
Not available.				
Conclusion/Summary				
Skin	: Kligman score: Grac	le I (weak sensitizer)		
Mutagenicity	-			
Not available.				
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Section 11. Toxicological information

Conclusion/Summary

: No mutagenic effect.

Carcinogenicity

Not available.

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.
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routes of exposure uto hoolth e . . .

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.	

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	: NOT available
Potential delayed effects	: Not available
<u>Long term exposure</u>	
Potential immediate effects	: Not available
Potential delayed effects	: Not available
Potential chronic health eff	ects
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	<u>/ estimates</u>
	-	

Ro	oute	ATE value
Or	ral	6166.1 mg/kg

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
eugenol	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 : Not available. coefficient (K_{oc})

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.

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Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
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

J.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 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed
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

Section 15. Regulatory information

Name		hazard	Sudden release of pressure		(acute) health	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

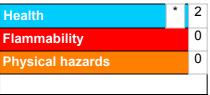
: None of the components are listed.

California Prop. 65

None of the components are listed.

Section 16. Other information

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



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.

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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.

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