

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

076362438

N/A

"Reviewed September 2010: No Changes"

# Material Safety Data Sheet

May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements.

## U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072



IDENTITY (As Used on Label and LHM)  
HY-Bond Zinc Oxide Eugenol Cement Powder

Note: Blank spaces are not permitted. If any item is not applicable, or no  
information is available, the space must be marked to indicate that.

### Section I

Manufacturer's Name  
Shofu Dental Corporation  
Address (Number, Street, City, State, and ZIP Code)  
1225 Stone Drive  
San Marcos, CA 92078

Emergency Telephone Number  
1-800-535-5053  
Telephone Number for Information  
760-736-3277  
Date Prepared  
OCTOBER 1, 2002  
Signature of Preparer (optional)

### Section II — Hazardous Ingredients/Identify Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
---	----------	-----------	-----------------------------	--------------

None

### Section III — Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	N/A
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	Insoluble		
Appearance and Odor	Fine, white, odorless powder		

### Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A	Flammable Limits	N/A	LEL	UEL
Extinguishing Media	N/A				
Special Fire Fighting Procedures	N/A				
Unusual Fire and Explosion Hazards	N/A				

(Reproduce locally)

OSHA 174, Sept. 1985

### Section V — Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable	X

Incompatibility (Materials to Avoid)  
None known

Hazardous Decomposition or Byproducts  
None known

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur	X

### Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	Possible	Skin?	N/A	Ingestion?	N/A
--------------------	-------------	----------	-------	-----	------------	-----

Health Hazards (Acute and Chronic)  
None known

Carcinogenicity:	NTP1	N/A	IARC Monograph?	N/A	OSHA Regulated?	N/A
------------------	------	-----	-----------------	-----	-----------------	-----

Signs and Symptoms of Exposure  
Contact with eyes may cause irritation due to foreign body reaction

Medical Conditions  
Generally Aggravated by Exposure  
None known

Emergency and First Aid Procedures  
Ingestion: Drink plenty of water. See physician if necessary. Eyes: Wash w/flowing water.

Consult physician if necessary. Skin contact: Wash with mild soap & water.

### Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Wipe 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

Store in a cool, dark area with lid tightly fastened

### Other Precautions

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

### Section VIII — Control Measures

Respiratory Protection (Specify Type)  
N/A

Ventilation	Local Exhaust	Special
N/A	Mechanical (General)	Other

Protective Gloves	N/A	Eye Protection	May be required
-------------------	-----	----------------	-----------------

Other Protective Clothing or Equipment  
N/A

Work/Hygienic Practices  
Avoid eye contact

Page 2

OSHA 174, Sept. 1985

## SAFETY DATA SHEET

**1. Identification of the substance or mixture and of the supplier***1.1 Product Name:***HY-Bond Temporary Cement A ZINC OXIDE EUGENOL CEMENT "POWDER"***1.2 Company /Undertaking identification*Manufacturer's Name: **SHOFU INC.**

Address: 11 Kamitakamatsu-cho, Fukuine, Higashiyama-ku, Kyoto 605-0983 ,JAPAN

Phone: +81-75-561-1112

Fax: +81-75-561-2273

Section in Charge: Quality Assurance Section

Date Prepared: 2014.9.29

*1.3 Emergency Telephone Number*

+81-75-561-1112

**2. Hazards identification**

## GHS CLASSIFICATION

PHYSICAL HAZARDS	FLAMMABLE SOLIDS	Not Classified
	PYROPHORIC SOLIDS	Not Classified
	SELF-HEATING SUBSTANCES AND MIXTURES	Not Classified
	SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES	Not Classified
HEALTH HAZARDS	OXIDIZING SOLIDS	Not Classified
	ACUTE TOXICITY-ORAL	Not Classified
	ACUTE TOXICITY-DERMAL	Not Classified
	ACUTE TOXICITY-INHALATION(DUST)	Category 4
	SKIN CORROSION/IRRITATION	Category 1A
	EYE DAMAGE/IRRITATION	Category 1
	SENSITIZATION-RESPIRATORY	Category 1
	SENSITIZATION-SKIN	Category 1
	GERM CELL MUTAGENICITY	Not Classified
	CARCINOGENICITY	Category 1A
	TOXIC TO REPRODUCTION	Not Classified
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	Category 1 (systemic toxicity)
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)	Category 1(lung) Category 2(bone)

The thing without mention is out of a classification object. Or cannot classify it.

## LABEL ELEMENTS

## SYMBOL



## SIGNAL WORD

Danger

## HAZARD STATEMENTS

Causes severe skin burns and eye damage  
 May cause an allergic skin reaction  
 Causes serious eye damage  
 Harmful if inhaled  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled

## SAFETY DATA SHEET

Causes damage to organs(systemic toxicity)  
 Causes damage to organs through prolonged or repeated exposure (lung)  
 Warning May cause damage to organs through prolonged or repeated exposure(bone)

### PRECAUTIONARY STATEMENTS

#### [Prevention]

Obtain special instruction before use.  
 Do not handle until all safety precautions have been read and understood.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Do not breathe dust.  
 Do not eat, drink or smoke when using this product.  
 In case of inadequate ventilation wear respiratory protection.  
 Contaminated work clothing should not be allowed out of the workplace.  
 Wash hands thoroughly after handling.

#### [Response]

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash before reuse.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes.

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

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

#### [Storage]

Store in a cool and dark area.

#### [Disposal]

Dispose of contents and container in accordance with regulation.

### 3.Composition/information on ingredients

<i>Composition</i>	<i>Content(%)</i>
Zinc Oxide (ZnO) [Cas No.1314-13-2]	> 60
Rosin	> 25
Others	< 10

### 4.First-aid measures

- 4.1 Eye contact :** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.
- 4.2 Skin contact :** Wash immediately with soap and plenty of water. If on skin, skin irritation, get medical advice/attention.
- 4.3 Ingestion :** Rinse mouth and seek medical advice if necessary.
- 4.4 Inhalation :** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptom concerning breath goes out, call a POISON CENTER to doctor.

### 5.Fire-fighting measures

**This product is non-flammable.**

## SAFETY DATA SHEET

5.1 Suitable Extinguishing Media:	N/A
5.2 Extinguishing Media Should not be used :	N/A
5.3 Special Exposure Hazards Arising:	N/A
5.4 Special Protective Equipment:	N/A

**6. Accidental release measures**

6.1 Personal Precautions:	See section 8. Do not breath dust.
6.2 Environmental Precautions:	Send to approved treatment/disposal company or dispose according to local, state and federal regulations.
6.3 Methods for Cleaning Up:	Wipe up and discard in a suitable container.

**7. Handling and storage**

7.1 Handling:	Handle in a well ventilated area. Avoid prolonged inhalation.
7.2 Storage:	Store in a cool and dry conditions with lid tightly closed.

**8. Exposure controls/personal protection**

8.1 Exposure limits:	Chemical name	ACGIH TLV.
	Zinc Oxide	2 mg/m <sup>3</sup> (TWA)
8.2 Respiratory Protection:	Dust mask(may be)	
8.3 Hand Protection:	Latex or rubber gloves	
8.4 Eye Protection:	Safety goggles or eye protection.	
8.5 Skin Protection:	Not required. General protective overalls.	

**9. Physical and chemical properties**

9.1 Appearance/Odour/pH	Yellowish white odorless powder
9.2 Boiling Point/Boiling Range:	N/D
9.3 Melting Point/Melting Range:	N/D
9.4 Flash point:	N/D
9.5 Auto flammability:	N/D
9.6 Explosive Properties:	N/D
9.7 Oxidizing Properties:	N/D
9.8 Vapour Pressure:	N/D
9.9 Relative Density:	≐2.3
9.10 Solubility: water solubility	Insoluble

**10. Stability and reactivity**

10.1 Stability:	Stable under recommended storage conditions.
10.2 Reactivity:	N/A
10.3 Condition to avoid:	Avoid direct sunlight and high temperature.
10.4 Materials to avoid:	N/A

**11. Toxicological information**

Zinc Oxide (ZnO)	Oral	rat	LD50 >5000mg/kg
	Inhalation (dust)	rat	LC50 >5.7mg/kg

**12. Ecological information**

DECOMPOSITION : No data available.

## SAFETY DATA SHEET

PERSISTENCE : No data available.

AQUATIC TOXICITY : No data available.

---

### 13. Disposal considerations

---

Dispose of contents/container to in accordance with local/regional/national/international regulations.

---

### 14. Transport information

---

Hazard class or division: Not classified as hazardous.

AIR : Transport in accordance with ICAO•IATA-DGR

UN Number : Not applicable

Protect from direct sun light in transportation, and confirm the container does not leak.

Carefully load it onto a transporter without dropping, overturning or damaging so that it will stably stays on the transporter.

---

### 15. Regulatory information

---

Follow all regulations in your country.

---

### 16. Other information

---

This product is intended for use by dental professionals. (instrument/material)