

## SAFETY DATA SHEET

**1. Identification of the substance or mixture and of the supplier***1.1 Product Name:***HY-Bond Zinc Phosphate Cement "LIQUID "***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

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Section in Charge: Quality Assurance Section

Date Prepared: 2014.9.25

*1.3 Emergency Telephone Number*

+81-75-561-1112

**2. Hazards identification**

## GHS CLASSIFICATION

PHYSICAL HAZARDS	SELF-REACTIVE SUBSTANCES AND MIXTURES	Not Classified
	SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES	Not Classified
HEALTH HAZARDS	ACUTE TOXICITY-ORAL	Category 4
	ACUTE TOXICITY-DERMAL	Not Classified
	ACUTE TOXICITY-INHALATION(DUST)	Not Classified
	ACUTE TOXICITY-INHALATION(MIST)	Not Classified
	SKIN CORROSION/IRRITATION	Category 1A
	EYE DAMAGE/IRRITATION	Category 1
	SENSITIZATION-SKIN	Not Classified
	CARCINOGENICITY	Not Classified
	TOXIC TO REPRODUCTION	Not Classified
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	Category 2 (systemic toxicity)
ENVIRONMENTAL HAZARD	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)	Category 3 (respiratory tract irritation)
	HAZARDOUS TO THE AQUATIC ENVIRONMENT-ACUTE HAZARD	division 2(lung)
	HAZARDOUS TO THE AQUATIC ENVIRONMENT-CHRONIC HAZARD	Category 2
		Category 2

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

## LABEL ELEMENTS

## SYMBOL

SIGNAL WORD  
HAZARD STATEMENTS

Danger  
 Harmful if swallowed  
 Causes severe skin burns and eye damage  
 Causes serious eye damage

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May cause respiratory irritation  
 Causes damage to organs(systemic toxicity)  
 Causes damage to organs through prolonged or repeated exposure(lung)  
 Toxic to aquatic life  
 Toxic to aquatic life with long lasting effects

## PRECAUTIONARY STATEMENTS

### [Prevention]

Obtain special instruction before use.  
 Do not handle until all safety precautions have been read and understood.  
 Wear protective gloves and eye/face protection.  
 Do not breathe dust/fume/gas/mist/vapours/spray.  
 Do not eat,drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Keep container tightly closed.  
 Wash hands thoroughly after handling.  
 Avoid release to the environment.

### [Response]

If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 If you feel un-well, get medical advice/attention.  
 Take off immediately contaminated clothing.  
 Wash contaminated clothing before reuse.  
 Collect spillage.  
 If in eyes, rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do.  
 If eye irritation persists, get medical advice/attention.  
 If swallowed, rinse mouth. Get medical advice/attention.

### [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>Hazard type</i>
Phosphoric acid [Cas No.7664-38-2]	≐ 55 %	<b>C</b>
Aluminium hydroxide	≐ 10 %	
Zinc oxide	< 5 %	
Water	> 30 %	

## 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. Get medical advice/attention.
- 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.

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**5.Fire-fighting measures**

This product is non-flammable.

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. Avoid contact with eyes and skin.
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:	Avoid contact with skin and eyes. Avoid inhaling and contact with eyes and skin. Local dust extraction measures are recommended.
7.2 Storage:	Store under normal dry conditions. Keep containers closed. Keep out of reach of children.

**8.Exposure controls/personal protection**

8.1 Exposure limits:	ACGIH TLV. Phosphoric acid 1mg/m <sup>3</sup> (TWA)
8.2 Respiratory Protection:	Local exhaust
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	Odourless, color less liquid
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:	1.59
9.10 Solubility: water solubility	Soluble
9.11 pH:	1~3 (as a 2% solution)

**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**

Phosphoric acid

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Zinc oxide Oral	Oral	rat	LD50 1250 mg/kg
		rabbit	LD50 2740 mg/kg
		rat	LD50 > 5000 mg/kg
	Inhalation (Dust,Mist)	rat	LC50 > 5.7 mg/L

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**12.Ecological information**

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The product should not be allowed to drain into sewers.

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**13.Disposal considerations**

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

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**14.Transport information**

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UN/ID No. 1805, ( Haz Class 8 •Pack Group III) as Phosphoric acid, solution

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**15.Regulatory information**

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Follow all regulations in your country.

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**16.Other information**

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