SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

1.1 Product Name:
PORCELAIN PRIMER

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 LIQUIDS Category 2
- PYROPHORIC LIQUIDS Not Classified
- SELF-HEATING SUBSTANCES AND MIXTURES Not Classified
- CORROSIVE TO METALS Not Classified

HEALTH HAZARDS
- ACUTE TOXICITY–ORAL Not Classified
- ACUTE TOXICITY–INHALATION(VAPOURS) Not Classified
- ACUTE TOXICITY–INHALATION(MIST) Not Classified
- SKIN CORROSION/IRRITATION Not Classified
- EYE DAMAGE/IRRITATION Category 2A
- GERM CELL MUTAGENICITY Category 1B
- CARCINOGENICITY Not Classified
- TOXIC TO REPRODUCTION Category 1A
- SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE) effects, respiratory tract irritation
- SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE) Category 1 (liver)
- ENVIRONMENTAL HAZARD Not Classified
- HAZARDOUS TO THE AQUATIC Not Classified
- ENVIRONMENT–ACUTE HAZARD
- HAZARDOUS TO THE AQUATIC Not Classified
- ENVIRONMENT–CHRONIC HAZARD

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

LABEL ELEMENTS

SYMBOL

SIGNAL WORD Danger

HAZARD STATEMENTS
- Highly flammable liquid and vapor
- Causes serious eye irritation
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May cause respiratory irritation
May cause drowsiness and dizziness
May cause genetic defects
May damage fertility or the unborn child
Causes damage to organs through prolonged or repeated exposure (liver)
Warning: May cause damage to organs through prolonged or repeated exposure (nerve)

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.
Keep away from ignition sources such as heat/sparks/open flames—No smoking.
Use only outdoors or in a well-ventilated area.
Avoid exposing if necessary with a personal protection tool and a ventilator.
Contaminated work clothing should not be allowed out of the workspace.
Ground/Bond container and receiving equipment.
Keep container tightly closed.
Wash hands thoroughly after handling.
Avoid release to the environment.

[Response]
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 on skin, wash with plenty of soap and water. If on skin, skin irritation, get medical advice/attention.
If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptom concerning breath gose out, call a POISON CENTER to doctor.
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

<table>
<thead>
<tr>
<th>Composition</th>
<th>Hazzard type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol [Cas No.64-17-5]</td>
<td>≈95%</td>
</tr>
<tr>
<td>Silane coupling agent</td>
<td>F</td>
</tr>
<tr>
<td>Others</td>
<td></td>
</tr>
</tbody>
</table>

4. First-aid measures

4.1 Eye contact: Rinse cautiously with water for several minutes.
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Remove contact lenses, if present and easy to do.

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. Consult physician. 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 gose out, call a POISON CENTER to doctor.

5. Fire-fighting measures

5.1 Suitable Extinguishing Media: CO2, Dry chemical, Alcohol-resistant foam

5.2 Extinguishing Media Should not be used: N/A

5.3 Special Exposure Hazards Arising: In case of fire, irritation gases and fumes may emit.

5.4 Special Protective Equipment: Wear fire protective cloth and self contained breathing apparatus if necessary.

6. Accidental release measures

6.1 Personal Precautions: Avoid eye contact. See section 8.

6.2 Environmental Precautions: Remove all ignition sources. Ventilation.

6.3 Methods for Cleaning Up: Collect leaking and spilled liquid in sealable containers as far as possible. Wash away remainder with plenty of water container.

7. Handling and storage

7.1 Handling: Handle in a well ventilated place. Keep away from ignition source—No smoking.

7.2 Storage: Keep container tightly closed. Store in a cool, dark and fireproof area. Separated from strong oxidants.

8. Exposure controls/personal protection

8.1 Exposure limits:

* (Ethanol )

[ACGIH 2007] 1000 ppm as TWA
NIOSH REL : TWA 1000 ppm (1900 mg/m^3)
OSHA PEL : TWA 1000 ppm (1900 mg/m^3)

[DFG 2004] MAK : 500 ppm, 960 mg/m^3; Peak limitation category : II (2)

8.2 Respiratory Protection: Use local exhaust and protective gas mask for organic gas, if necessary.

8.3 Hand Protection: Protective gloves (Latex, rubber or plastics gloves)

8.4 Eye Protection: Safety goggles (May be required)

8.4 Skin Protection: Not required

9. Physical and chemical properties

9.1 Appearance/Odour/pH: Colorless transparent liquid with alcohol odor

9.2 Boiling Point/Boiling Range: ≤ 80°C

9.3 Melting Point/Melting Range: N/D

9.4 Flash point: 16°C (close)

9.5 Autoignitability: N/D

9.6 Explosive Properties: N/D

9.7 Oxidizing Properties: N/D

9.8 Vapour Pressure: N/D
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9.9 Relative Density: 0.8 (water=1)
9.10 Solubility: water solubility Soluble in all purport

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, excess heat, flame and other source of ignition
10.4 Materials to avoid: Strong oxidizing materials.

11. Toxicological information
(ethanol)

Acute toxicity:
[Emergency Response Guidebook]
Vapors may cause dizziness or suffocation.
Inhalation of high concentration of vapor may cause irritation of the respiratory tract.
May cause effects on the central nervous system.
Inhalation toxicity:
mouse LC50 39 g/m3/4H
rat LC50 20000 ppm/10H
Oral toxicity:
mouse LD50 7500 mg/kg
rat LD50 7060 mg/kg
rabbit LD50 6300 mg/kg
human TDL0 0.5 g/kg
human LDL0 1400 mg/kg
Dermal toxicity:
rabbit LDL0 20 g/kg

Irritant properties:
[Emergency Response Guidebook]
Inhalation or contact with material may irritate or bum skin and eyes.
Irritating to the eyes.
Inhalation of high concentration of vapor may cause irritation of the eyes.
Irritant properties to skin:
rabbit 400 mg open; MILD
20 mg/24H; MODERATE
Irritant properties to eyes:
rabbit 500 mg/24H; MILD
rabbit 100 mg/4S rinse; MODERATE

Allergenic and sensitizing affects:
Not available

Chronic toxicity:
Defats the skin.
May have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.
Chronic ingestion of ethanol may cause liver cirrhosis.
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Carcinogenic effects:
ACGIH-A4 : Not classifiable as a human carcinogen.
[DFG 2004] MAK : Carcinogen category : 5

12. Ecological information
   Ecotoxicity: Harmful to aquatic organisms.
   Fish toxicity:
     The lethal dose of fish: 9000 mg/l/24H (as Ethanol)

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

14. Transport information
   UN Hazard Class: 3, Pack Group: II, (UN No: 1170 as Ethanol)

15. Regulatory information
   Follow all regulations in your country.

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