## SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade Name:
ResiCem "PRIMER B"
1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Dental material
Uses advised against: No further data
1.3 Details of the supplier of the safety date sheet

Company/Undertaking identification
Manufacturer's Name: SHOFU DENTAL GmbH
Address: An der Pönt 70, 40885 Ratingen, Germany
Phone: +49 (0) 2102-8664-0
Fax: +49 (0) 2102-8664-64
E-Mail: info@shofu.de
Section in Charge: Quality Management \& Regulatory Affairs
1.4 Emergency Telephone Number
+49-2102-8664-53 (SHOFU DENTAL GmbH) 24 hours / 7 days

## SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

CLASSIFICATION (EC 1272/2008)
Flam.liq. $2 \quad \mathrm{H} 225 \quad$ Highly flammable liquid and vapour
Skin Irrit. $2 \quad$ H315 Causes skin irritation
Skin Sens. 1 H317 May cause an allergic skin reaction
Eye Irrit. $2 \quad$ H319 Causes serious eye irritation
STOT SE 3 H336 May cause drowsiness or dizziness
2.2 Label elements

LABEL IN ACCORDANCE WITH (EC) NO.1272/2008



HAZARD-DETERMINING COMPONENTS OF LABELLING
Acetone
2-Hydroxy Ethyl Methacrylate
SIGNAL WORD
Danger
HAZARD STATEMENTS
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

## PRECAUTIONARY STATEMENTS

P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces.

- No smoking.

P233 Keep container tightly closed.
P261 Avoid breathing dust/fume/gas/mist/vapour s/spray.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352

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

### 2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

## SECTION 3. Composition/information on ingredients

3.1 Chemical characterization: Mixtures
3.2 Description: Mixture of substances listed below with nonhazardous additions.
3.3 Dangerous components:

| Cas: 67-64-1 <br> EINECS: 200-662-2 | Acetone |  |
| :--- | :--- | :--- |
|  | Flam. Liq. 2 H225, Eye Irrit. 2 H319 <br> STOT SE 3 H336 | 15-25 \% |
| Cas: 868-77-9 <br> EINECS: 212-782-2 | 2-hydroxyethyl methacrylate <br> Skin Irit. 2 H315, Skin Sens. 1 H317 <br> Eye Irrit. 2 H319 | $40-45 \%$ |

3.4 Additional information: For the wording of the listed risk phrases refer to section 2.

## SECTION 4. First-aid measures

4.1 Description of first aid measures

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.
Skin contact: Wash immediately with soap and plenty of water. If on skin, skin irritation, get medical advice/attention.
Ingestion: Rinse mouth. Get medical advice/attention.
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 or doctor.
4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

## SECTION 5. Fire-fighting measures

5.1 Extinguishing Media:
$\mathrm{CO}_{2}$, Dry chemical, Foam, Dry sand
5.2 Special hazards arising from the substance or mixture:

Easily flammable liquid in room temp.
5.3 Advice for firefighters:

Wear fire protective cloth and self-contained breathing apparatus, if necessary.

## SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid eye and skin contact.
6.2 Environmental Precautions:

Send to approved treatment/disposal company or dispose according to local, state and federal regulations.
6.3 Methods and material for containment and cleaning up:

Wipe up and discard in a suitable container.
6.4 Reference to other section:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

## SECTION 7. Handling and storage

7.1 Precautions for safe handling:

Handle in a well ventilated place.
Keep away from open flames, sparks and sources of heat. No smoking.
7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool and dark fire proof area with container tightly closed.
(Keep refrigerated when not in use.)
7.3 Specific end use(s):

No further relevant information available.

## SECTION 8. Exposure controls/personal protection

8.1 Control parameters:

Exposure limits:

| Component |  | EU | ACGIH (TLV) |
| :--- | :--- | :--- | :--- |
| Acetone | TWA; 500 ppm, | TWA; 500 ppm 8 hr | 500 ppm TWA |
|  | $1210 \mathrm{mg} / \mathrm{m}^{3}$ | TWA; $1210 \mathrm{mg} / \mathrm{m}^{3}$ | 750 ppm STEL |
|  | STEL; 1500 ppm, | 8 hr |  |
| $3620 \mathrm{mg} / \mathrm{m}^{3}$ |  |  |  |


| Component | NIOSH | OSHA-Final PELs |
| :--- | :--- | :--- |
| Acetone | 250 ppm TWA | 1000 ppm TWA |
|  | $\left(590 \mathrm{mg} / \mathrm{m}^{3}\right.$ TWA $)$ | $2400 \mathrm{mg} / \mathrm{m}^{3}$ TWA |
|  | 2500 ppm IDLH |  |

8.2 Exposure controls:

Respiratory Protection:
Not required.
Skin Protection: Hand Protection
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR
Nitrile rubber, NBR
Eye Protection: Safety goggles

## SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance/Odor/Colour:
Odour threshold
pH
Melting point/freezing point
Boiling Point:
Flash point:
Evaporation rate
Flammability (solid, gas)
Upper/lower flammability or explosive limits
Vapour pressure
Vapour density
Relative Density:

Colorless liquid with sweet odor
Not determined.
Not determined.
Not determined.
Not determined.
$-12{ }^{\circ} \mathrm{C}$ (closed)
Not determined.
Not applicable.
Not determined.
Not determined.
Not determined.
1.1 (water=1)

Solubility: water solubility
Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidising properties

## Soluble

Not determined.
Not determined.
Not determined.
Not determined.
Not applicable.
Not applicable.
9.2 Other information

No further relevant information available.

## SECTION 10. Stability and reactivity

10.1 Reactivity:

No further relevant information available.
10.2 Chemical stability:

Stable under normal temperatures and pressures.
10.3 Possibility of hazardous reactions:

No dangerous reactions known.
10.4 Condition to Avoid:

Avoid direct sunlight, excess heat, flame and other source of ignition.
10.5 Incompatible materials:

Strong oxidizing materials.
10.6 Hazardous Decomposition Products:

None under normal conditions of storage and use.

## SECTION 11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity: Acetone;

| Oral | rat | LD50 | $5800 \mathrm{mg} / \mathrm{kg}$ |
| :--- | :--- | :--- | :--- |
| Dermal | rabbit | LD50 | $>15800 \mathrm{mg} / \mathrm{kg}$ |
|  | rat | LD50 | $>7400 \mathrm{mg} / \mathrm{kg}$ |
| Inhalation | rat | LC50 | $76 \mathrm{mg} / \mathrm{l}, 4 \mathrm{~h}$ |
| 2-Hydroxy | Ethyl | Methacrylate; |  |
| Oral | rat | LD50 | $5050 \mathrm{mg} / \mathrm{kg}$ |
| Dermal | rabbit | LD50 | $>3000 \mathrm{mg} / \mathrm{kg}$ |

Skin corrosion/irritation: Skin Irrit. 2; H315 Causes skin irritation.
Eye damage/irritation: Eye Irrit. 2; H319 Causes serious eye irritation.
Sensitization to the respiratory tract:
Based on available data, the classification criteria are not met.
Skin sensitization: Skin Sens. 1; H317 May cause an allergic skin reaction.
Germ cell mutagenicity/Genotoxicity:
Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
Effects on or via lactation: Lack of data.

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Specific target organ toxicity (single exposure):
STOT SE 3; H336May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure):
Based on available data, the classification criteria are not met
Aspiration hazard: Based on available data, the classification criteria are not met.

## SECTION 12. Ecological information

12.1 Toxicity:

Acetone:
Fish toxicity: Fathead minnow; LC50/96H >100mg/L
12.2 Persistence and degradability:

No further relevant information available.
12.3 Bioaccumulative potential:

No further relevant information available.
12.4 Mobility in soil:

No further relevant information available.
12.5 Results of PBT and vPvB assessment:

Not applicable.
12.6 Other adverse effects:

No further relevant information available.

## SECTION 13. Disposal considerations

13.1 Waste treatment methods:

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

## SECTION 14. Transport information

14.1 UN number:
14.2 UN proper shipping name:
14.3 Transport hazard class(es):
14.4 Packing group:
14.5 Environmental hazards:
14.6 Special precautions for user:
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

## SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

- EU REGULATIONS: See Section 2
- Other regulations, limitations and prohibitive regulations:

The product is a medical device according to the EC-directive 93/42/EEC.
15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

## SECTION 16. Other information

This product is intended for use by dental professionals. (instrument/material)
Relevant phrases:
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
Abbreviations and acronyms:
EINESC: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

