

MATERIAL SAFETY DATA SHEET

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

1.1 Product Name:

AZ PRIMER

1.2 Company / Undertaking identification

Manufacturer's Name: **SHOFU INC.**

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

Phone: +81-75-561-1112

Fax: +81-75-561-2273

Section in Charge: Quality Assurance Section

Date Prepared 2011.10.12

1.3 Emergency Telephone Number

+81-75-561-1112

2 Hazards identification

GHS CLASSIFICATION

| | | |
|----------------------|---|--|
| PHYSICAL HAZARDS | FLAMMABLE LIQUIDS | Category 2 |
| | PYROPHORIC LIQUIDS | Not Classified |
| | CORROSIVE TO METALS | Not Classified |
| HEALTH HAZARDS | ACUTE TOXICITY- ORAL | Not Classified |
| | ACUTE TOXICITY- DERMAL | Not Classified |
| | ACUTE TOXICITY- INHALATION(VAPOURS) | Not Classified |
| | SKIN CORROSION/IRRITATION | Not Classified |
| | EYE DAMAGE/IRRITATION | Category 2A |
| | SENSITIZATION- RESPIRATORY | Not Classified |
| | SENSITIZATION- SKIN | Not Classified |
| | GERM CELL MUTAGENICITY | Not Classified |
| | CARCINOGENICITY | Not Classified |
| | TOXIC TO REPRODUCTION | Category 2 |
| | SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE) | Category 3(narcotic effects, respiratory tract irritation) |
| | SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE) | Category 2(blood) |
| ENVIRONMENTAL HAZARD | HAZARDOUS TO THE AQUATIC ENVIRONMENT- ACUTE HAZARD | Not Classified |
| | HAZARDOUS TO THE AQUATIC ENVIRONMENT- CHRONIC HAZARD | Not Classified |

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
May cause allergic skin reaction
Causes serious eye irritation

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May cause allergy or asthma symptoms or breathing difficulties if inhaled
 May cause respiratory irritation, or May cause drowsiness and dizziness
 Suspected of damaging fertility or unborn child
 Warning May cause damage to organs through prolonged or repeated exposure (blood)

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.

In case of inadequate ventilation wear respiratory 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

Ground/Bond container and receiving equipment.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workspace.

Keep container tightly closed.

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.

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 goes out, call a POISON CENTER to doctor.

If swallowed, rinse mouth. Get medical advice/attention.

[Storage]

Store in a cool and dark area. (Keep refrigerated when not in use)

[Disposal]

Dispose of contents and container in accordance with regulation.

3. Composition/information on ingredients

| <i>Composition</i> | | <i>Hazard type</i> |
|----------------------------|-------|--------------------|
| Acetone [Cas No.67- 64- 1] | >99 % | F .Xi |
| Phosphonate monomer | | |
| Thioctic acid monomer | | |

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

| | |
|--|--|
| <i>5.1 Suitable Extinguishing Media:</i> | Powder, Alcohol-resistant foam, Carbon dioxide. |
| <i>5.2 Extinguishing Media Should not be used:</i> | N/A |
| <i>5.3 Special Exposure Hazards Arising</i> | Hazardous toxic and irritating fumes or smoke may be emitted. Vapors may travel considerable distance to ignition source and flash back. |
| <i>5.4 Special Protective Equipment:</i> | Wear fire protective cloth and self-contained breathing apparatus if necessary. |

6. Accidental release measures

| | |
|---------------------------------------|---|
| <i>6.1 Personal Precautions:</i> | See section 8 |
| <i>6.2 Environmental Precautions:</i> | Send to approved treatment/disposal company or dispose according to local, state and federal regulations. |
| <i>6.3 Methods for Cleaning Up:</i> | Wipe up and discard in a suitable container. |

7. Handling and storage

| | |
|---------------------|--|
| <i>7.1 Handling</i> | Handle in a well ventilated place. Wear protective gloves, safety spectacles or face shield. (If necessary wear self-contained breathing apparatus.) Keep away from naked flames, sparks and sources of heat. No smoking. |
| <i>7.2 Storage:</i> | Store in a cool and dark fire proof area with container tightly closed. Separated from strong oxidants. (Keep refrigerated when not in use.) |

8. Exposure controls/personal protection

| | |
|------------------------------------|---|
| <i>8.1 Exposure limits:</i> | ACGIH TLV. |
| Aceton [Cas No.67- 64- 1] | 500ppm(TWA);750ppm(STEL)A4 |
| <i>8.2 Respiratory Protection:</i> | Ventilation. Local exhaust. |
| <i>8.3 Hand Protection:</i> | Latex or rubber gloves |
| <i>8.4 Eye Protection:</i> | Safety spectacles |
| <i>8.5 Skin Protection:</i> | Not required (General working clothes.) |

9. Physical and chemical properties

| | |
|--|--|
| <i>9.1 Appearance/Odour/pH</i> | Colorless liquid with sweet odour |
| <i>9.2 Boiling Point/Boiling Range:</i> | ≅ 56°C |
| <i>9.3 Melting Point/Melting Range:</i> | 95 °C [as Acetone] |
| <i>9.4 Flash point:</i> | - 15.0 °C (closed) |
| <i>9.5 Auto flammability:</i> | N/D |
| <i>9.6 Explosive Properties:</i> | Explosive limits (2.2~13 vol% in air) [as Acetone] |
| <i>9.7 Oxidizing Properties:</i> | N/D |
| <i>9.8 Vapour Pressure:</i> | 24 kPa (at 20°C) [as Acetone] |
| <i>9.9 Relative Density:</i> | 0.83 (water=1) |
| <i>9.10 Solubility: water solubility</i> | Soluble in all purport |

10. Stability and reactivity

| | |
|---------------------------------|---|
| <i>10.1 Stability:</i> | Stable under recommended storage conditions. |
| <i>10.2 Reactivity:</i> | N/A |
| <i>10.3 Condition to avoid:</i> | Avoid excess heat, flame and other source of ignition. Separated from strong oxidants. |

MATERIAL SAFETY DATA SHEET*10.4 Materials to avoid*

Strong oxidizing materials.

11. Toxicological information*Acetone ;*

Acute toxicity : Emergency response guidebook

Vapors may cause dizziness or suffocation.

| | | | |
|--------------|--------|------|--------------------------|
| (Inhalation) | mouse | LCL0 | 110 g/m ³ /1H |
| | rat | LCL0 | 16000 ppm/4H |
| | human | TCL0 | 500 ppm |
| (Oral) | mouse | LD50 | 3000 mg/kg |
| | rat | LD50 | 5800 mg/kg |
| (Dermal) | rabbit | LD50 | 20 g/kg |

Irritant properties :

Inhalation or contact with material may irritate or burn skin and eyes.

Irritant properties to skin/eye.

| | | |
|--------|--------|-----------------------|
| (Skin) | rabbit | 3950 ug ; SEVERE |
| | rabbit | 100 mg/24H ; MODERATE |
| (Eye) | rabbit | 395 mg open ; MLD |
| | rabbit | 500 MG/24H ; MLD |

Allergenic and sensitizing effects ; N/A

Chronic toxicity ;

Toxic : danger of serious damage to health by prolonged exposure through inhalation.

Carcinogenic effects ;

ACGIH-A4 : Not Classifiable as a Human Carcinogen.

Mutagenic effects ; N/A

Teratogenic effects ; N/A

Toxicity for reproduction ; N/A

12. Ecological information

The product should not be allowed to drain into sewers.

13. Disposal considerations

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

14. Transport information

UN Hazard Class:3/UN Packing Group: II

UN NO.1090 (as Acetone)

15. Regulatory information

Follow all regulations in your country.

16. Other information

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