

MATERIAL SAFETY DATA SHEET

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

1.1 Product Name:

ML. 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

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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 normal temperatures and pressures.
<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
	tat	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 ; MODERRATE
(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 Aceton)

15.Regulatory information

Follow all regulations in your country.

16.Other information

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