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

1.1 Product Name:

QUICK RESIN "LIQUID"

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 2011.9.27

1.3 Emergency Telephone Number

+81-75-561-1112

2 Hazards identification		
GHS CLASSIFICATION		
PHYSICAL HAZARDS	FLAMMABLE LIQUIDS	Category 2
	PYROPHORIC LIQUIDS	Not Classified
HEALTH HAZARDS	ACUTE TOXICITY-ORAL	Not Classified
	ACUTE TOXICITY-DERMAL	Not Classified
	ACUTE TOXICITY-INHALATION(VAPOURS)	Not Classified
	SKIN CORROSION/IRRITATION	Category 2
	EYE DAMAGE/IRRITATION	Category 2A
	SENSITIZATION-RESPIRATORY	Category 1
	SENSITIZATION-SKIN	Category 1
	GERM CELL MUTAGENICITY	Not Classified
	CARCINOGENICITY	Not Classified
	TOXIC TO REPRODUCTION	Category 2
	SPECIFIC TARGET ORGAN SYSTEMC	Category 3
	TOXICITY (SINGLE EXPOSURE)	(respiratory
		tract irritation,
		narcotic effects)
	SPECIFIC TARGET ORGAN SYSTEMC	Category 1
	TOXICITY (REPEATED EXPOSURE)	(central nervous
		system,respiratory)
ENVIRONMENTAL HAZARD	HAZARDOUS TO THE AQUATIC	Category 3
	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

Causens skin irritation

May cause allergic skin reaction

Causes serious eye irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause respiratory irritation

May cause drowsiness and dizziness

Suspected of damaging fertility or unborn child

Causes damage to organs through prolonged or repeated

exposure(Icentral nervous system, respiratory)

Harmful to aquatic life

PRECAUTIONARY STATEMENTS

[Prevention]

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.

In case of inadequate ventilation wear respiratory protection.

Keep away from ignition sources such as heat/sparks/open

flames-No smoking.

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.

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 flesh 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 container tightiy closed in cool/well-ventilated place.

[Disposal]

Dispose of contents and container in accordance with regulation.

3.Composition/information on ingredients % Hazardous Methyl Methacrylate [Cas No.80-62-6] >95 F ,Xi N,N- Dimethyl-P-Toluidine [Cas No.99-97-8] < 2 Ethylen glycol dimethacrylate [Cas No.97-90-5] < 3 Others < 1

4.First-aid measures

4.1 Eye contact: Rinse immediately with plenty of water. Remove contact lenses, if present and

easy to do. If eye irritation persists, get medical advice/attention.

4.2 Skin contact: Wash immediately with plenty of water and soap. If on skin, skin irritation, get

medical advice/attention.

4.3 Ingestion: Rinse mouth. Get medical advice/attention.

4.4 Inhalation: Remove victim to flesh 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: Use dry chemical, foam, carbon dioxide or dry sand to

extinguish fire.

5.2 Extinguishing Media Should not be used:

Do not use water in a jet. Doing so may be in danger the

spread fire.

5.3 Special Exposure Hazards Arising: Nothing special item.

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 and skin contact. See section 8.

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: Absorb with suitable absorbent (e.g. paper towel, cloth, dry

sand, saw dust and vermiculite) and discard in a suitable

container.

7. Handling and storage

7.1 Handling Avoid inhalation of grindings and prolonged skin contact.

Handle in a well ventilated place. Keep away from sources of ignition- No smoking,

Do not empty into drain.

7.2 Storage: Store in a well ventilated dark area, keep away from ignition sources.

Take precautionary measures against static discharge.

8.Exposure controls/personal protection

8.1 Exposure limits:

Methyl Methacrylate:

- OSHA Permissible Exposure Limit (PEL): 100 ppm (TWA)

- ACGIH Threshold Limit Value (TLV): 50 ppm (TWA), 100 ppm (STEL), Sensitizer,

A4 - Not Classifiabke as a Human Carcinogen.

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

8.3 Hand Protection: Latex or rubber gloves

8.4 Eye Protection: Safety goggles (May be required)

8.5 Skin Protection: Not required (Observe normal care when working with chemicals.)

9. Physical and chemical properties

9.1 Appearance/Odor/pH Colorless liquid with perceptible sweet odor

9.2 Boiling Point/Boiling Range: ≒ 100°C 9.3 Melting Point/Melting Range: N/D

9.4 Flash point: 10.8 °C (closed)

9.9 Relative Density:

9.10 Solubility: water solubility

9.10 Solubility: water solubility

9.10 Solubility: Slightly soluble

10.Stability and reactivity

10.1 Stability: A polymerization inhibitor has been added to the product to

stabilize it under normal conditions of handling.

10.2 Reactivity: Very flammable liquid and the vapor mixed with air generate

explosive gas. Polymerization reaction generate large quantity

heat and quick reaction may cause explosion.

10.3 Condition to avoid: Sunlight, Heating, High temperature.
10.4 Naterials to avoid: Acid, Alkali, Oxidation- related material.

11.Toxicological information

Methyl Methacrylate:

Acute Oral Toxicity: LD50(Rat) 7900 mg/kg
Acute Dermal Toxicity: LD50(Rabbit) > 5000 mg/kg
Acute Inhalation Toxicity: LC50(Rat) 7093 ppm/4H(Vapor)

Carcinogenicity: Classified by IARC as group 3

ACGIH as group A4

EPA class E

12Ecological information

Methyl Methacrylate:

Organism Toxicity:

For Daphnia magna acute toxicity EC50/48hr 69mg/L.

Persistence/degradability:

Readily biodegradable. Degradability by BOD is 94.4%

Bioaccumulation:

Bioaccumulation is not expected to be significant. Log Kow=1.38.

13.Disposal considerations

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

14.Transport information

UN/ID no. 1247, (Haz Class 3 Pack Group II) as methylmethacrylate monomer, inhibited

15.Regulatory information

Follow all regulations in your country.

16.Other information

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