

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

1.1 Product Name:

SEP

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
	SELF- REACTIVE SUBSTANCES AND MIXTURES	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	Category 2
	EYE DAMAGE/IRRITATION	Category 2A
	GERM CELL MUTAGENICITY	Not Classified
	CARCINOGENICITY	Category 2
	TOXIC TO REPRODUCTION	Category 2
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	Category 1(central nervous system , systemic toxicity , kidney)
		Category 3 (respiratory tract irritation)
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)	Category 2 (liver ,blood,spleen)
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



# MATERIAL SAFETY DATA SHEET

MSDS\_SEP.xls

SIGNAL WORD	Danger
HAZARD STATEMENTS	Highly flammable liquid and vapor Causes skin irritation Causes serious eye irritation May cause respiratory irritation Suspected of causing cancer Suspected of damaging fertility or unborn child Causes damage to organs(central nervous system,systemic toxicity,kidney) Warning May cause damage to organs through prolonged or repeated exposure(liver,blood,spleen)
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. Ground/Bond container and receiving equipment. Use only outdoors or in a well-ventilated area. Avoid exposing if necessary with a personal protection tool and a ventilator. 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 container tightly closed in cool/well-ventilated place. [Disposal] Dispose of contents and container in accordance with regulation.

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### 3.Composition/information on ingredients

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		<i>Hazardous</i>
Isopropyl Alcohol [Cas No.67- 63- 0]	≐ 60%	F
n- Propyl Alcohol [Cas No.71- 23- 8]	≐ 10%	F
Others		

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### 4.First- aid measures

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- 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.

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- 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.

## 5. Fire-fighting measures

- 5.1 *Suitable Extinguishing Media* : CO2, Dry chemical, Foam, Dry sand  
 5.2 *Extinguishing Media Should not be used* : N/A  
 5.3 *Special Exposure Hazards Arising* : N/A  
 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

- |                             |                   |            |  |
|-----------------------------|-------------------|------------|--|
| <i>8.1 Exposure limits:</i> | Cas.No.           | OSHA (PEL) | ACGIH (TLV)                                    |
|                             | Isopropyl Alcohol | 67- 63- 0  | 400ppm (TWA)<br>200 ppm (TWA)<br>400ppm (STEL) |
|                             | n- Propyl Alcohol | 71- 23- 8  | 200ppm (TWA)<br>100 ppm(TWA)<br>250ppm (STEL)  |
- 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* : Blue transparence liquid  
 9.2 *Boiling Point/Boiling Range* : N/D  
 9.3 *Melting Point/Melting Range* : N/D  
 9.4 *Flash point* : 15.5°C  
 9.5 *Auto flammability* : N/D  
 9.6 *Explosive Properties* : N/D  
 9.7 *Oxidizing Properties* : N/D  
 9.8 *Vapour Pressure* : N/D  
 9.9 *Relative Density* : 0.85  
 9.10 *Solubility: water solubility* : Soluble

**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. Avoid direct sunlight and high temperature.
<i>10.4 Materials to avoid</i>	Strong acid and oxidizing materials.

**11. Toxicological information**

Isopropyl Alcohol ;	
Oral	rat LD50 3437mg/kg
Inhalation	rat LC50 72600mg/m <sup>3</sup> (29512ppm) /4H (vapours)

**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/ID no. 1219, ( Haz Class 3 Pack Group II) as Isopropanol

**15. Regulatory information**

Follow all regulations in your country.

**16. Other information**

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