

SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier*1.1 Product Name:***SOLIBOND***1.2 Company /Undertaking identification*Manufacturer's Name: **SHOFU INC.**

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

Phone: +81-75-561-1112

Fax: +81-75-561-2273

Section in Charge: Quality Assurance Section

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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-HEATING SUBSTANCES AND MIXTURES	Not Classified
	CORROSIVE TO METALS	Not Classified
HEALTH HAZARDS	ACUTE TOXICITY-ORAL	Not Classified
	ACUTE TOXICITY-INHALATION(VAPOURS)	Not Classified
	ACUTE TOXICITY-INHALATION(MIST)	Not Classified
	SKIN CORROSION/IRRITATION	Not Classified
	EYE DAMAGE/IRRITATION	Category 2A
	GERM CELL MUTAGENICITY	Category 1B
	CARCINOGENICITY	Not Classified
	TOXIC TO REPRODUCTION	Category 1A
	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	Category 3(narcotic effects,respiratory tract irritation)
	ENVIRONMENTAL HAZARD	SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)
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
Causes serious eye irritation

SAFETY DATA SHEET

May cause respiratory irritation
 May cause drowsiness and dizziness
 May cause genetic defects
 May damage fertility or the unborn child
 Causes damage to organs through prolonged or repeated exposure(liver)
 Warning May cause damage to organs through prolonged or repeated exposure(nerve)

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.
 Keep away from ignition sources such as heat/sparks/open flames–No smoking.
 Use only outdoors or in a well-ventilated area.
 Avoid exposing if necessary with a personal protection tool and a ventilator.
 Contaminated work clothing should not be allowed out of the workspace.
 Ground/Bond container and receiving equipment.
 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 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.

[Disposal]

Dispose of contents and container in accordance with regulation.

3.Composition/information on ingredients

<i>Hazardous Composition</i>		<i>Hazard type</i>
Ethanol [Cas.No. 64-17-5]	≐95%	F
Others		

4.First-aid measures

4.1 Eye contact : Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do.

SAFETY DATA SHEET

- 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. Consult physician. 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
- 5.2 *Extinguishing Media Should not be used* : N/A
- 5.3 *Special Exposure Hazards Arising*: In case of fire, irritation gasses and fumes may emit.
- 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 contact. See section 8.
- 6.2 *Environmental Precautions*: Dispose according to local, state and federal regulations.
- 6.3 *Methods for Cleaning Up*: Wipe up with wet towel. Rinse the towel in flowing water before dispose.

7.Handling and storage

- 7.1 *Handling*: Handle in a well ventilated place. Keep away from ignition source—No smoking.
- 7.2 *Storage*: Keep container tightly closed. Store in a cool and dark area.

8.Exposure controls/personal protection

- 8.1 *Exposure limits*:

	ACGIH	NIOSH	OSHA—Final PELs
Ethanol:	1000ppm TWA	1000ppm TWA; 1900mg/m ³ TWA 3300ppm IDLH	1000ppm TWA; 1900mg/m ³ TWA
- 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)
- 8.4 *Skin Protection*: Not required.

9.Physical and chemical properties

- 9.1 *Appearance/Odour/pH*: Colorless transparent liquid with alcohol odor
- 9.2 *Boiling Point/Boiling Range*: ≅80°C
- 9.3 *Melting Point/Melting Range*: -117°C(Ethanol)
- 9.4 *Flash point*: 15.8°C(close)
- 9.5 *Autoflammability*: 363°C (Ethanol)
- 9.6 *Explosive Properties*: N/D
- 9.7 *Oxidizing Properties*: N/D
- 9.8 *Vapour Pressure*: kPa at 20—C: 5.8 (Ethanol)
- 9.9 *Relative Density*: 0.83 (water=1)
- 9.10 *Solubility: water solubility*: Soluble

10.Stability and reactivity

- 10.1 *Stability*: Stable under normal temperatures and pressures.

SAFETY DATA SHEET

10.2 Condition to Avoid: Excessive heat (high temperature), open flames, ignition source, and exposure to sunlight.

10.3 Materials to Avoid: Strong oxidizing materials.

10.4 Hazardous Decomposition Products:
Will not occur.

11.Toxicological information

Ethanol: Draize test, rabbit, eye: 500 mg Severe;
Draize test, rabbit, eye: 500 mg/24H Mild;
Draize test, rabbit, skin: 20 mg/24H Moderate;
Inhalation, mouse: LC50 = 39 gm/m³/4H;
Inhalation, rat: LC50 = 20000 ppm/10H;
Oral, mouse: LD50 = 3450 mg/kg;
Oral, rabbit: LD50 = 6300 mg/kg;
Oral, rat: LD50 = 7060 mg/kg;
Oral, rat: LD50 = 9000 mg/kg;

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.1170 (as Ethyl alcohol)

15.Regulatory information

Follow all regulations in your country.

16.Other information

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