

## Safety Data Sheet

Manufacturer: Soft99 Corporation  
 Address: 6-5, Tanmachi 2-Chome,  
 Chuo-ku, Osaka, 540-0012,  
 Japan

REF No.: 09179A

Telephone: 81-6-6942-2851

### Glass Fiber Putty (Main Agent)

#### COMPOSITION/INFORMATION ON INGREDIENTS

Name	wt%	Formula	Cas No.
STYRENE	19.1	-	100-42-5
COBALT NAPHTHENATE	<1	-	61789-51-3
SILICA	<1	-	60676-86-0
XYLENE	<0.3	-	1330-20-7

#### HAZARD IDENTIFICATION

GHS classification:

Flammable solid	Category 1
Acute Toxicity (Inhalation: Vapor)	Category 4
Skin corrosive / irritation	Category 2
Serious eye damage / Eye Irritation	Category 2
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 2
Reproductive Toxicity	Category 1B
Specific target organ systemic toxicity - Single exposure	Category 1 (Central nervous system)
Specific target organ systemic toxicity - Repeated exposure	Category 1 (Respiratory organs, Nervous system, Liver, Blood)
Acute Aquatic Toxicity	Category 2

GHS label elements



Hazard and toxicity information:

Flammable solid  
 Harmful or fatal if inhaled.  
 Skin irritation  
 Severe eye irritation  
 Genetic disorder  
 Carcinogenic potential  
 May bring damage on reproductive function or unborn baby  
 Central nervous system damage  
 Long-term or repeated exposure may cause respiratory organs, blood, kidney and nervous system damage.  
 Toxicity to aquatic organisms

Precaution: [ Safety measures ]

Get the instruction before use.  
 Do not handle this product before you read all the safety precautions and understand it.  
 Use in a well-ventilated area.  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Ground container.  
 Wear protective gloves, goggles and masks.  
 Use explosion-proof electrical equipment, ventilating device, lighting device.  
 Avoid inhalation of mine dust, smoke, gas, mist, vapor, and spray.

Do not eat and drink before using this product.  
 Wash hands well after handling this product.  
 Avoid discharge into the environment.

[ First aid measures ]

Take appropriate fire extinction measure.

Inhalation: Move the victim to fresh air area and keep him quiet.  
 Seek medical attention.

Eye contact: Carefully flush eyes with water for several minutes. If easily accomplished, check for  
 and remove contact lens. Keep flushing eyes afterward.  
 If irritation persists, seek medical attention.

Skin contact: Remove contaminated clothes and clean affected area thoroughly  
 with soap and large amounts of water.  
 If skin irritation occurs, seek medical attention.

Exposure: Seek medical attention.  
 If feeling sick, seek medical attention.

[ Storage ]

Store in cool and well-ventilated area.  
 Keep container tightly closed.

[ Disposal ]

Consign a qualified industrial waste treatment firm by a prefectural governor.

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## FIRST AID MEASURES

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Eye contact: Flush eyes with cool, clean, low-pressure water for at least 15 minutes,  
 and seek immediate medical attention.

Skin contact: Immediately flush affected area with water and clean it thoroughly with soap.

Inhalation: Remove the victim to fresh air area, cover him with a blanket and keep him quiet.  
 Seek medical attention, if needed.

Ingestion: Rinse mouth with water.  
 Seek medical attention immediately.  
 Do not induce vomiting.

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## FIRE FIGHTING MEASURES

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Extinguishing media:

Fire-extinguishing chemicals (Dry chemicals, carbon gas, foam)

Specific methods of fire-fighting:

Wear proper protective mask and extinguish the fire from the windward side.  
 Extinguish a small fire with dry chemicals or carbon gas.  
 In the case of a large scale fire, use a foam fire-extinguisher to shut out the air  
 and cool off surrounding facilities with water spray.

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## ACCIDENTAL RELEASE MEASURES

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- Wear suitable protective equipment such as protective mask, gloves, goggles and apron during cleanup operation.
- Transfer to appropriate waste containers, which can be tightly closed.
- Immediately isolate from any source of heat or ignition and combustible materials.
- Prepare proper fire-extinguisher for accidental ignition.
- Use non-sparking tools.

**HANDLING AND STORAGE**

Handling: Keep away from ignition source such as, sparkle, naked flame, high-temperature material.  
Use in a well-ventilated area.  
Keep container tightly closed as needed.

Storage: Avoid direct sunlight.  
Store in well ventilated area.  
Keep away from ignition source such as, sparkle, naked flame, high-temperature material.

**EXPOSURE CONTROLS / PERSONAL PROTECTION**

Protective Equipment: Provide local exhaust ventilation in poorly-ventilated area, or place where vapor easily occurs  
Occupational Exposure Guidelines:

	ACGIH	
	Threshold Limit Value - TWA	Threshold Limit Value - STEL
<b>SILICA</b>	0.1mg/m3	-
<b>STYRENE</b>	20ppm	-
<b>XYLENE</b>	100ppm	-

Personal Protective Equipment:

Respiratory Protection: Wear protective mask as needed.  
Hand Protection: Wear protective gloves, solvent resistant gloves or vinyl gloves as needed.  
Eye Protection: Wear protective glasses, goggles or mask as needed.

**PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Paste  
Color: Light brown/semi-transparent  
Boiling Range: -  
Auto Ignition Temperature/Point: 490°C  
Flammable or Explosive Range: 1.1-6.1% (Styrene)  
Specific Gravity : 1.41-1.61 (at 20°C)  
Solubility in Water: Insoluble

**STABILITY AND REACTIVITY**

Stability and Reactivity: Stable in a cool dark place, but produces heat by polymerization reactions of heat, light and peroxide.  
Flash point: 32°C  
Flammability: YES  
Hazardous Decomposition Products: None  
Other: None

**TOXICOLOGICAL INFORMATION**

Skin corrosion / irritation: Skin irritation (Category 2)  
Serious eye damage / irritation: Eye irritation (Category 2)  
Acute toxicity:  
STYRENE: LD50 316mg/kg by Mouse (oral)  
COBALT NAPHTHENATE: LD50 3900 mg/kg by Rat (oral)  
STYRENE: LC50 24000 mg/m3/4H by Rat (inhalation)  
XYLENE: LC50 6700 ppm/4H by Rat (inhalation)  
Germ cell mutagenicity : Category 2  
Carcinogenicity : Category 2  
Reproductive toxicity : Category 1B  
Specific target organ systemic toxicity - Single exposure : Central nervous system damage.(Category 1)  
Specific target organ systemic toxicity - Repeated exposure : Long-term or repeated exposure may cause respiratory organs, nervous system, blood and kidney damage.(Category 1).

**ECOLOGICAL INFORMATION**

Toxicological information as a whole product:

Acute aquatic environmental toxicity: Toxicity to aquatic organisms (Category 2)  
Chronic aquatic environmental toxicity: No data

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**DISPOSAL CONSIDERATIONS**

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**TRANSPORT INFORMATION**

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Keep away from fire.

Safety measure and condition of transportation should be in compliance with general precautions.

Prevent cargo collapse.

No Lay Down.

Prevent temperature rise from the container and keep it under 40°C.

Handle the container carefully, not to give a shock. Don't slam or overturn it.

UN number : 1325

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**REGULATORY INFORMATION**

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Fire Services Act:	Type 2, Flammable solid
Ordinance On Prevention of Organic Solvent Poisoning:	Type 3 Organic Solvent
Industrial Safety and Health Law:	Contains notifiable substances.
PRTR:	Type 1-80, Type 1-240

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**OTHER INFORMANTION**

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Guideline of Material Safety Data Sheet by Association of Japan Auto Chemical Industry.

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The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

## Safety Data Sheet

Manufacturer: Soft99 Corporation

Address: 6-5, Tanmachi 2-Chome,  
Chuo-ku, Osaka, 540-0012,  
Japan

REF No.: 09179B

Telephone: 81-6-6942-2851

### Glass Fiber Putty (Hardener)

#### COMPOSITION/INFORMATION ON INGREDIENTS

Name	wt%	Formula	Cas No.
Cyclohexanone peroxide	30-35	-	12262-58-7
Triethyl phosphate	30-35	-	78-40-0
Dimethyl phthalate	15-20	-	131-11-3
Hydrogen peroxide	<1	-	7722-84-1
Silica	5-10	-	60676-86-0
Cyclohexanone	1-5	-	108-94-1

#### HAZARD IDENTIFICATION

GHS classification:

Organic peroxide	Type D
Acute Toxicity (Inhalation: Vapor)	Category 4
Skin corrosive / irritation	Category 1
Serious eye damage / Eye Irritation	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 2
Reproductive Toxicity	Category 2
Specific target organ systemic toxicity - Single exposure	Category 1 (Central nervous system, respiratory organs, liver, spleen)
Specific target organ systemic toxicity - Repeated exposure	Category 1 (Central nervous system, kidneys, liver, lungs)
Acute Aquatic Toxicity	Category 3
Chronic Aquatic Toxicity	N/A

GHS label elements



Hazard and toxicity information:

Heating may cause fire.  
 Harmful or fatal if inhaled.  
 Severe skin irritation  
 Severe eye irritation  
 Genetic disorder  
 Carcinogenic potential  
 May bring damage on reproductive function or unborn baby  
 Respiratory organs, central nervous system, liver and spleen damage  
 Long-term or repeated exposure may cause central nervous system, kidneys, liver and lungs damage.  
 Toxicity to aquatic organisms

Precaution: [ Safety measures ]

Get the instruction before use.  
 Do not handle this product before you read all the safety precautions and understand it.  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Wear protective gloves, goggles and masks.  
 Do not transfer to other containers.

Avoid inhalation of mine dust, smoke, gas, mist, vapor, and spray.  
 Do not eat and drink before using this product.  
 Use in a well-ventilated area.  
 Avoid discharge into the environment.

[ First aid measures ]

Inhalation: Move the victim to fresh air area and keep him quiet.  
 Seek medical attention immediately.

Eye contact: Carefully flush eyes with water for several minutes. If easily accomplished, check for  
 and remove contact lens. Keep flushing eyes afterward.  
 If irritation persists, seek medical attention.

Skin contact: Remove contaminated clothes and clean affected area thoroughly  
 with soap and large amounts of water.  
 Wash contaminated clothes before wearing them again.  
 If skin irritation occurs, seek medical attention.

Exposure: Seek medical attention.  
 If feeling sick, seek medical attention.

[ Storage ]

Store in cool and well-ventilated area.  
 Keep container tightly closed.  
 Avoid direct sunlight.  
 Store away from other materials.

[ Disposal ]

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## FIRST AID MEASURES

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Eye contact: Flush eyes with cool, clean, low-pressure water for at least 15 minutes,  
 and seek immediate medical attention.

Skin contact: Immediately flush affected area with water and clean it thoroughly with soap.  
 If skin irritation occurs, seek medical attention.

Inhalation: Remove the victim to fresh air area, cover him with a blanket and keep him quiet.  
 Seek medical attention, if needed.

Ingestion: Rinse mouth thoroughly with water.  
 Do not induce vomiting.  
 Seek medical attention.

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## FIRE FIGHTING MEASURES

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Extinguishing media:

Fire-extinguishing chemicals (Dry chemicals, carbon gas, foam)

Specific methods of fire-fighting:

Wear proper protective mask and extinguish the fire from the windward side.  
 Extinguish a small fire with dry chemicals or carbon gas.  
 In the case of a large scale fire, use a foam fire-extinguisher to shut out the air  
 and cool off surrounding facilities with water spray.

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## ACCIDENTAL RELEASE MEASURES

---

- Wear suitable protective equipment such as protective mask, gloves, goggles and apron during cleanup operation.
- Transfer to appropriate waste containers, which can be tightly closed.

- Immediately isolate from any source of heat or ignition and combustible materials.
- Prepare proper fire-extinguisher for accidental ignition.
- Use non-sparking tools.

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## HANDLING AND STORAGE

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Handling: Keep away from ignition source such as, sparkle, naked flame, high-temperature material.  
Use in a well-ventilated area.  
Keep container tightly closed as needed.

Storage: Avoid direct sunlight.  
Store in well ventilated area.  
Keep away from ignition source such as, sparkle, naked flame, high-temperature material.  
Keep out of reach of children.

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## EXPOSURE CONTROLS / PERSONAL PROTECTION

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Protective Equipment: Provide local exhaust ventilation in poorly-ventilated area, or place where vapor easily occurs

Occupational Exposure Guidelines:

	ACGIH	
	Threshold Limit Value - TWA	Threshold Limit Value - STEL
<b>Cyclohexanone peroxide</b>	20ppm	-
<b>Dimethyl phthalate</b>	5mg/m <sup>3</sup>	-
<b>Silica</b>	0.1mg/m <sup>3</sup>	-
<b>Hydrogen peroxide</b>	1ppm	-

Personal Protective Equipment:

Respiratory Protection: Wear protective mask as needed.  
Hand Protection: Wear protective gloves, solvent resistant gloves or vinyl gloves as needed.  
Eye Protection: Wear protective glasses, goggles or mask as needed.

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## PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Paste  
Color: Yellow  
Boiling Range: No data  
Auto Ignition Temperature/Point: No data  
Flammable or Explosive Range: No data  
Specific Gravity : 1.2 (at 20°C)  
Solubility in Water: Insoluble

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## STABILITY AND REACTIVITY

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Stability: Unstable with heat.  
Reactivity: Contact with amines, acid, alkaline, transition metal compounds and other reducing substances may cause to dramatically accelerate the chemical breakdown.  
Flash point: No data  
Flammability: YES  
Hazardous Decomposition Products: None  
Other: None

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## TOXICOLOGICAL INFORMATION

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Skin corrosion / irritation: Potential burn damage (Category 1)  
Serious eye damage / irritation: Eye irritation (Category 1)  
Acute toxicity: Cyclohexanone peroxide: LD50 1535 mg/kg by Rat (oral)  
Triethyl phosphate: LD50 1600 mg/kg by Mouse (oral)  
Dimethyl phthalate: LD50 6800 mg/kg by Rat (oral)  
Cyclohexanone peroxide: LC50 8000 ppm/8H by Rat (inhalation)  
Germ cell mutagenicity : Category 2  
Carcinogenicity : Category 2  
Reproductive toxicity : Category 2

Specific target organ systemic toxicity - Single exposure :	Respiratory organs, liver, spleen and central nervous system damage. (Category 1)
Specific target organ systemic toxicity - Repeated exposure :	Long-term or repeated exposure may cause kidneys, liver, central nervous system and lungs damage.(Category 1).

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**ECOLOGICAL INFORMATION**


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Toxicological information as a whole product:

Acute aquatic environmental toxicity:	Toxicity to aquatic organisms (Category 3)
Chronic aquatic environmental toxicity:	N/A

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**DISPOSAL CONSIDERATIONS**


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**TRANSPORT INFORMATION**


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Keep away from fire.  
 Safety measure and condition of transportation should be in compliance with general precautions.  
 Prevent cargo collapse.  
 No Lay Down.  
 Prevent temperature rise from the container and keep it under 40°C.  
 Handle the container carefully, not to give a shock. Don't slam or overturn it.  
 UN number : 3106

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**REGULATORY INFORMATION**


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Fire Services Act:	Type 5, Organic peroxide Type 2, (100kg)
Ordinance On Prevention of Organic Solvent Poisoning:	Type 3 Organic Solvent
Industrial Safety and Health Law:	Contains notifiable substances.
PRTR:	N/A

---

**OTHER INFORMANTION**


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Guideline of Material Safety Data Sheet by Association of Japan Auto Chemical Industry.

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