

**SECTION 1 - IDENTIFICATION**

**1.1 - TRADE NAME:** GYSI® GS340 two components structural adhesives

**1.2 - SUPPLIER:** Taizhou Good Adhesives Co., Ltd.  
Shiniu Village, Yanjinag Town, Linhai City, Zhejiang,  
P.R.China  
Tel. 86-576-85696851

**MANUFACTURER:** Taizhou Good Adhesives Co., Ltd.  
Shiniu Village, Yanjinag Town, Linhai City, Zhejiang,  
P.R.China  
Tel. 86-576-85696851

**SECTION 2 - RISK/HAZARD IDENTIFICATION**

Health	Environmental	Physical
Acute Toxicity: Category 4	Acute Toxicity: None Known	Flammable Liquid Category 2
Skin Irritation: Category 3	Chronic Toxicity: None Known	
Skin Sensitization: NO		
Eye: Category 2		

**GHS LABEL:**



**Signal Word:**

**WHMIS CLASSIFICATION:** CLASS B, DIVISION 2  
CLASS D, DIVISION 1B

Hazard Statements	Precautionary Statements
H225: Highly flammable liquid and vapor	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
H319: Causes serious eye irritation	P261: Avoid breathing dust/fume/gas/mist/vapors/spray
H332: Harmful if inhaled	P280: Wear protective gloves/protective clothing/eye protection/face protection
H335: May cause respiratory irritation	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
H336: May cause drowsiness or dizziness	P403+P233: Store in a well ventilated place. Keep container tightly closed
H351: Suspected of causing cancer	P501: Dispose of contents/container in accordance with local regulation
EUH019: May form explosive peroxides	

**SECTION 3 - CHEMICAL COMPOSITION**

	CAS#	CONCENTRATION	SYMBOL	R phrases	S phrases	Exposure Limit Value
Component A Methyl Methacrylate Monomer	80-62-6	40 - 60%	F Xi	11-36-37-38-43	9-16-24-37	100 PPM
Component B Benzoyl Peroxide(BPO)	94-36-0	5 -15%	F Xi	N/A	N/A	5mg/m <sup>3</sup>

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing. \*

**SECTION 4 - FIRST AID MEASURES**

**Contact with eyes:** Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.  
**Skin contact:** Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.  
**Inhalation:** Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.  
**Ingestion:** Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.  
**Likely Routes of Exposure:** Inhalation, Eye and Skin Contact  
**Acute symptoms and effects:**  
**Inhalation:** Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.  
**Eye Contact:** Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.  
**Skin Contact:** Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.  
**Ingestion:** May cause nausea, vomiting, diarrhea and mental sluggishness.  
**Chronic (long-term) effects:** Category 2 Carcinogen

**SECTION 5 - FIREFIGHTING MEASURES**

**5.1 Suitable Extinguishing Media:** -Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.  
**5.2 Unsuitable Extinguishing Media:** -Water spray or stream.  
**5.3 Exposure Hazards:** -Inhalation and dermal contact  
**5.4 Combustion Products:** -Oxides of carbon, hydrogen chloride and smoke  
**5.5 Protection for Firefighters:** -Self-contained breathing apparatus or full-face positive pressure airline masks.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions:** -Keep away from heat, sparks and open flame.  
-Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.  
-Prevent contact with skin or eyes (see section 8).  
**6.2 Environmental Precautions:** -Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.  
**6.3 Methods for Cleaning up:** -Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel (Metal or Polyethylene).  
**6.4 Materials not to be used for clean up:** -Liquid(s)

**SECTION 7 - STORAGE AND HANDLING**

**7.1 Handling:** -Avoid breathing of vapor, avoid contact with eyes, skin and clothing. Do not swallow. Use with adequate ventilation.  
-Do not cut, drill, grind, weld or perform similar operations on or near empty containers. Vapor of this product are heavier than air and will collect in low areas.  
-Do not eat, drink or smoke while handling.  
**7.2 Storage:** -Store in a dry place. Keep container tightly closed when not in use. Store below 21°C (70°F) and away from direct sunlight.  
-Follow all precautionary information on container label, product bulletins and solvent bonding literature.

**SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION**

**8.1 System Design:** If ventilated cabinet, enclosure or fume hood is necessary, average airflow should be at least 100 FPM (50.8cm/sec).  
**8.2 Monitoring:** Maintain breathing zone airborne concentrations below exposure limits (see section 2).  
**8.3 Personal Protective Equipment (PPE):**  
**-Eye Protection:** Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, etc. as may be appropriate for the exposure.  
**-Skin Protection:** Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion.  
Use of solvent-resistant gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application practices and procedures are used for making structural bonds.  
**-Breathing Protection:** Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above. With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection equipment.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>9.1 Appearance:</b>	A: Off White viscous liquid, B: Off White viscous liquid		
<b>9.2 Odor:</b>	A: Acrid Odor, B: Odorless		
<b>9.3 pH:</b>	Not Applicable		
<b>9.4 Boiling Point:</b>	100.5°C(212.9 °F) based on component: MMA		
<b>9.5 Flash Point:</b>	11.5 °C(52.7°F) T.C.C. Based on MMA		
<b>9.6 Auto Flammability:</b>	421 °C(789.8 °F): MMA		
<b>9.7 Vapor Pressure:</b>	29 mm Hg @ 20°C(68°F): MMA		
<b>9.8 Solubility:</b>	Slight in water (MMA)		
<b>9.9 Other Data:</b>	Vapor Density	>2 (Air=1)	Density @ 23°C±2° (73°F±3.6°): 1.1±0.04
	Evaporation Rate	>1.0 (BUAC=1)	Flammability Limits LEL: 1.6%
	VOC Content	<50g/L	UEL: 12.5%

**SECTION 10 - STABILITY AND REACTIVITY**

<b>10.1 Stability:</b>	Stable under recommended storage conditions. (See Section 7)
<b>10.2 Conditions to avoid:</b>	Avoid open flames, welding arcs or other high temperature sources.
<b>Avoid Direct:</b>	Sunlight
<b>10.3 Incompatible Materials:</b>	Oxidizers, strong bases, amines, metals such as zinc powders, aluminum or magnesium powders, potassium sodium.
<b>10.4 Hazardous decomposition products:</b>	Depending on temperature and air supply, may include hydrogen chloride, trace amounts of chlorine, phosgene.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**11.1 Acute symptoms and effects:**

<b>Inhalation:</b>	Excessive overexposure may cause irritation to nose and throat. In confined areas, vapor can accumulate and can cause unconsciousness.
<b>Eye contact:</b>	May cause moderate eye irritation which may be slow to heal. May cause slight corneal injury. Vapor may cause mild discomfort and redness.
<b>Skin contact</b>	Prolonged contact may cause skin burns. May cause more severe response on covered skin (under clothing and gloves).
<b>Ingestion:</b>	Low toxicity if small amount swallowed, however larger amounts may cause injury, aspiration into the lungs may occur during ingestion or vomiting.
<b>Chronic(long-term) effects:</b>	IARC Classification 2B (Methylene Chloride)

**SECTION 12 - ECOLOGICAL INFORMATION**

<b>12.1 Mobility:</b>	In normal use, emission of volatile organic compounds (VOC's) to the air takes place. Typically at a rate of ≤ 50 Grams/Liter.. Minimal other adverse effects include possible ground water contamination from release to soil, sewers, drains or water course.
<b>12.2 Degradability</b>	Not readily biodegradable
<b>12.3 Acourmulation</b>	Low

**SECTION 13 - WASTE DISPOSAL CONSIDERATIONS**

Follow local and national regulations. Consult disposal expert. Can be disposed of by controlled incineration. Excessive quantities should not be permitted to enter drains, sewers or water courses. Empty containers should be air dried before disposing.

**SECTION 14 - TRANSPORT INFORMATION**

<b>14.1 UN Number:</b>	UN1133	<b>14.7 ADR/RID CLASSIFICATION:</b>	
<b>14.2 UK Road &amp; Sea Freight (IMO) Classification:</b>	3.2	Class:	3.5c
<b>14.3 Substance Classification Number:</b>		Item number:	
<b>14.4 Class:</b>	3	<b>14.8 ICAO/IATA CLASSIFICATION:</b>	
<b>14.5 Packing Group:</b>	II	Class:	3
<b>14.6 Proper Shipping Name:</b>	Adhesives	Sub-Risk:	None
<b>PGR (if applicable)</b>		Packing Group:	II
		Proper Shipping Name:	Adhesives

**SECTION 15 - REGULATORY INFORMATION**

<b>15.1 Precautionary Label Information:</b>	Highly Flammable, Irritant	
<b>15.2 Symbols:</b>	F, Xi	
<b>15.3 Risk Phrases:</b>	R-11 Highly Flammable	R-66 Irritating to eyes and skin.
<b>15.4 Safety Phrases:</b>	S-2 Keep out of reach of children	S-24/25 Avoid contact with skin and eyes.
	S-7 Keep container tightly closed when not in use	S-45 In case of accident or if you feel unwell, seek medical advice immediately.
	S-3 Keep in a cool place	S-36/37/37 TWear suitable protective clothing, gloves and eyes/face protection.
	S-46 If swallowed, seek medical advice immediately and show this container or label.	

**SECTION 16 - OTHER INFORMATION**

**16.1 Specification Information:**

<b>Department issuing data sheet:</b>	G-Good, Research and Development Department
<b>Contact name:</b>	David
<b>E-mail address:</b>	<sales@g-good.com.cn>

<b>16.2 Training necessary:</b>	Yes, training in practices and procedures contained in product literature
<b>16.3 Reissue date/reason for reissue:</b>	SEP 2016 / Change format to conform with GHS requirements
<b>16.4 Intended use of product:</b>	Two components reactive adhesive

**16.5** This product is intended for use by skilled individual sat their own risks. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.