



Yi-Hua Electronic Materials Co., Ltd.

Product name: Yizbond-9005SP-2

MATERIAL SAFETY DATA SHEET

No. : 02002

Grade Name: YizBond-9005SP-2

SECTION 1: COMPANY IDENTIFICATION

COMPANY IDENTIFICATION

<CHINA> 广州市翌骅电子材料有限公司

Factory

广州市翌骅电子材料有限公司

广州市番禺区榄核镇太平工业区翌骅电子材料有限公司

TEL: (86)20-84921608

FAX: (86)20-84921813

<TAIWAN> 台湾翌骅实业股份有限公司

Head Office

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No.8, Alley 4, Lane 41, Ho Yi Rd., Keelung, Taiwan 202

TEL : (886)-2-24631951

FAX: (886)-2-24631742

Laboratory and Factory

桃园县龙潭乡高杨南路 320 巷 3 号

TEL : (886)-3-4719415,7

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PREPARED BY : Milo LO

PRODUCT NAME :

Yizbond-9005SP-2

PRODUCT CLASSIFICATION:

DIE ATTACH ADHESIVE



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SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	%
Epoxy Resin	12 to 15
Silver Powder	77 to 81
Epoxy / amine adduct	0.9 to 1.2
Glycidyl ester	6 to 7
Silica, Amorphous, Fused Crystalline-Free	0.1 to 0.3
Coupling Agent	0.75 to 0.8

Ingredients which have exposure limits:

Exposure Limits (TWA)	ACGIH	OSHA	OTHER
Ingredients	(TLV)	(PEL)	
Silver powder	5 mg/m3 TWA	5 mg/m3 TWA Respirable dust	None Respirable dust
Modified silicon dioxide	10 mg/m3 total 3 mg/m3 resp.	15 mg/m3 total 5 mg/m3 resp	6 mg/m3
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA Respirable dust
Exposure Limits (STEL)	ACGIH	OSHA	
Ingredients	(TLV)	(PEL)	



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SECTION 3: HAZARDS IDENTIFICATION

Toxicity:

Skin and eye irritant. May be irritating by respiratory tract and sensitizer.

Primary Routes of Entry:

Eyes, skin.

Signs and Symptoms of Exposure:

May cause dermatitis or sensitization on prolonged contact. Eye or skin irritation. Especially Hives.

Existing Conditions Aggravated by Exposure:

Skin conditions, allergies, eczema

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Epoxy Resin	ALG IRR	NO	NO	NO
Silver powder	IRR LUN SOM	NO	N/A	NO
Epoxy/amine adduct	No data	NO	NO	NO
Modified silicon dioxide	IRR	NO	NO	NO
Glycidyl ester	ALG IRR	NO	NO	NO
Silica, Amorphous, Fused, Crystalline-free	NUI	NO	N/A	NO

Note:

Abbreviations

N/A : Not Applicable

ALG : Allergen

IRR : Irritant

LUN : Lung

NTO : No Target Organs

NUI : Nuisance dust

RES : Respiratory

SOM : Some evidence of carcinogenicity



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SECTION 4: FIRST AID MEASURE

Ingestion:

Do not induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation:

Remove to fresh air. If symptoms persist, obtain medical attention.

Skin Contact:

Wash with soap and water.

Eye Contact:

Flush at least 15 minutes with water. Obtain medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point:

More than 200°F (Method: Tag Closed Cup)

Recommended Extinguishing Agents:

Carbon dioxide, foam, dry chemical

Special Firefighting

Procedures: Not available

Hazardous Products formed by Fire or Thermal Decomposition Oxides of carbon, irritating organic materials.

Unusual Fire or Explosion Hazards: None

Explosive Limits:

(% by volume in air) Lower Not available

(% by volume in air) Upper Not available



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Avoid contact with product. Soak up with an inert absorbent. Store in a closed container until disposal.

SECTION 7: HANDLING AND STORAGE

Safe Storage:

Store below 100°F

(Contact Yi-Hua Customer Service 886-2-24631951 for shelf life information)

Handling:

Avoid skin contact. Keep away from eyes.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:

Safety glasses or goggles.

Skin:

Rubber or plastic gloves.

Ventilation:

Does not apply

Respiratory:

NIOSH/MSHA approved respirator if necessary to keep exposure below acceptable exposure limits. (See Section 2 for Exposure Limits.)



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Silver paste
Odor	Mild
Boiling Point	More than 300°F
pH	Does not apply
Solubility in Water	Insoluble
Specific Gravity	3.5
Volatile Organic Compound (EPA Method 24)	Not available
Vapor Pressure	Less than 1mm at 68°F
Vapor Density	Not available
Evaporation Rate (Ether=1)	Not available

SECTION 10: STABILITY AND REACTIVITY

Stability	Stable
Hazardous Polymerization	Will not occur
Incompatibility	Oxidizing agents, strong acids, bases, amines, mercaptans.
Conditions to Avoid	Not available
Hazardous Decomposition Products (non-thermal)	None

SECTION 11: TOXICOLOGICAL INFORMATION

See Section 3.

SECTION 12: ECOLOGICAL INFORMATION

No data available



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SECTION 13: DISPOSAL CONSIDERATIONS

Recommended methods of disposal:

Incinerate following EPA and local regulations.

EPA Hazardous Waste Number

Check for barium: D005

Not a RCRA reactive hazardous waste when disposing of unused product in original container
(Up to 300 ml cartridges).

SECTION 14: TRANSPORTATION INFORMATION

DOT (49 CFR 172) Domestic Ground Transport

Proper Shipping Name:

Not Regulated (Up to 300 ml cartridges)

Hazard Class or Division:

None

Identification Number:

None

Marine Pollutant:

None

IATA

Proper Shipping Name:

Not Regulated (Up to 300 ml cartridges)

Class or Division:

None

UN or ID Number:

None



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SECTION 15: REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer. Epichlorohydrin, formaldehyde, Crystalline silica

SECTION 16: OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 1
Fire Hazard: 1
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 1*
Flammability Hazard: 1
Reactivity Hazards: 0
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

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