

## Product Information Sheet

### 1. Article and Corporate Identification

**Product:** Epson Tape Cartridge LC-5ZBU1  
for use with Epson Tape LW-300 and LW-400 Printers

**Distributor:** Epson America, Inc.  
3840 Kilroy Airport Way  
Long Beach, CA 90806  
United States  
TEL: 562-276-1369  
FAX: 562-997-5799

The **EPSON LC-5ZBU1** Tape Cartridge

### 2. Composition Information

*This is an aqueous ink formulation*

Ink Composition	CAS No.	% By Weight
Proprietary copolymerized polyester acrylic ethylene silicon resin	-	1 – 5%
Carbon black ribbon pigment	1333-86-4	<3%
PET film	25038-59-9	35 – 40%
Doped strontium aluminate polyurethane ink base	12004-37-4	<9%
Acrylic adhesive agent	-	1 – 5%
Polyethylene silicon backing paper	-	balance

### 3. Hazard Identification

**3.1 Emergency Overview:** Ribbon-printed tape is an inert black on glow film solid. Keep out of reach of children to avoid choking hazard.

**3.2 Potential Health Effects:**

**Eyes:** None known. See Section 11 for Toxicology.

# EPSON

*Skin:* None known. See Section 11 for Toxicology.

*Inhalation:* None known. See Section 11 for Toxicology.

*Ingestion:* Possible choking hazard, if not used as intended. See Section 11 for Toxicology.

## 4. First Aid Measures

4.1 *Eyes:* Seek medical attention if eye irritation continues.

4.2 *Skin:* Seek medical attention if irritation continues.

4.3 *Inhalation:* Consult physician if necessary.

4.4 *Ingestion:* Dislodge choking hazard. Seek medical attention.

## 5. Fire Fighting Measures

5.1 *Flammability:* Flash point is greater than 392 deg. F / 200 deg. C (closed cup in accordance with ASTM D3278)

5.2 *Extinguishing Media:* Water, dry chemical or carbon dioxide

5.3 *Fire Fighting Instructions:* No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

## 6. Accidental Release Measures

If a spill occurs, collect and recover. Place waste in closed container for disposal. Do not dispose of waste to the sewer. No eye or skin protection required during clean-up. Observe normal hygiene during and after collection.

## 7. Precautions for Safe Handling and Use

Keep out of reach of children. Keep cartridge out of direct sunlight. Do not dismantle cartridge. Do not store cartridges with oxidizing agents. Make sure cartridge is dry before insertion into printer housing. Do not use as electrical insulating tape.

## 8. Exposure Controls and Personal Protection

8.1 *Engineering Controls:* None required

8.2 *Exposure Controls:* None required

8.3 *Personal Protection:* None required when cartridges are used as intended

## 9. Physical and Chemical Properties of Ink Formulation

<i>Appearance:</i>	Black on glow film solid
<i>Odor:</i>	None
<i>pH:</i>	Organically neutral
<i>Boiling point:</i>	Not applicable
<i>Freezing point:</i>	Not applicable
<i>Melting point:</i>	Greater than 392 deg. F / 200 deg. C

# EPSON

<i>Flash point:</i>	Greater than 392 deg. F / 200 deg. C (closed cup, ASTM D3278)
<i>Autoflammability:</i>	None
<i>Explosive properties:</i>	None
<i>Oxidizing properties:</i>	None
<i>Vapor density:</i>	Greater than 1 (air = 1)
<i>Relative density:</i>	0.95 at 68 deg. F / 20 deg. C
<i>Solubility in water:</i>	Insoluble
<i>Solubility in fat:</i>	No data available
<i>Partition coefficient:</i>	No data available
<i>Viscosity:</i>	Not applicable

## 10. Stability and Reactivity

<i>Stability:</i>	Stable
<i>Hazardous polymerization:</i>	Will not occur
<i>Hazardous decomposition products:</i>	None
<i>Incompatible materials:</i>	Oxidizers

## 11. Toxicology and Health Hazards

*Routes Of Overexposure:* None known

*Acute Health Hazards:* None known

*Chronic Health Hazards:* None known

*Carcinogenicity:* With excessive exposure, carbon black has been listed as a possible human carcinogen. However, as engineered within this tape cartridge, emissions to air of carbon black during normal labeling use have not been found. IARC, the International Agency for Research on Cancer, has found printing inks to be not classifiable as human carcinogens.

<i>Toxicity Data:</i>	Oral LD50 Not Established	Dermal LD50 Not Established	Inhalant LC50 Not Applicable	OSHA Regulated? Not Established
-----------------------	------------------------------	--------------------------------	---------------------------------	------------------------------------

## 12. Ecological Information

Organically inert solid with no known adverse effects of this material on the environment

## 13. Disposal Considerations

Used and unused cartridges are not a federal RCRA hazardous waste. Disposal should be in accordance with federal, state, and local requirements.

## 14. Transportation Information

Not regulated as a Hazardous Material by DOT, IMO, or IATA

## 15. Regulatory Considerations

<i>U.S. DOT Hazard Class Regulated?</i>	NO
<i>U.S. OSHA Inhalation Hazard?</i>	NO
<i>In U.S., NFPA/HMIS Hazard Rating:</i>	Health (1), Flammability (1), Instability/Reactivity (0), Other (0)

EU RoHS compliant?

YES

## 16. Other Information

**This PIS adheres to U.S. regulatory requirements and standards and may not meet the regulatory requirements in other locations.**

*This is a revised Product Information Sheet which replaces all prior U.S. PIS for this product.*

*This “Product Information Sheet” contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. EPSON does not warrant the completeness or accuracy of the information contained herein. It is subject to revision from time to time.*

YOU'VE GOT TO SEE IT IN **EPSON COLOR™**