

Product Information Sheet

1. Article and Corporate Identification

Product: Epson Tape Cartridge LC-4ZBU1
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-4ZBU1** 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™**