

Product Description

A unique solution developed to apply a subtle passivation layer that increases solder joint strength and prevents copper diffusion into gold layer when used in conjunction with other *Ni-less ENIG-Premium™* chemistries.

Reminder: *LILO-CuBL™* cannot be replenished, make sure to evaluate product usage to avoid manufacturing lead times.

Health & Safety

Before using this product always refer to the Safety Data Sheet (SDS) provided with *LILO-CuBL* for details on product hazards, recommended handling precautions, and product storage.

FIRST AID - IF IN EYES: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

IF ON SKIN (or hair): Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

IF SWALLOWED: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

IF INHALED: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

IN CASE OF SPILL: Wear respiratory protection. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Product Information	
Typical Application:	Printed Circuit Board (PCB) plating and industrial copper plated surface protection.
Primary Benefits:	Superior solder joint performance and high diffusion resistance when used in conjunction with the <i>Ni-less ENIG-Premium™</i> product line. Contact LiloTree (p.3) for technical information and supporting data.
Data	
International Compliance	-NA-
Appearance	Clear liquid (light blue)
Temperature Range	50-60°C / 122-140°F (Recommended: 50°C/122°F)
Filtration Porosity	5µm

Operation Notes

- Use in concentration supplied.
- Agitation during plating is **NOT** recommended (no observed changes to performance)
- Filtration is recommended between every component to maintain solution performance.
- Exposure to foreign/external **soft polymers** should be kept to a minimum or avoided completely (e.g. Polyethylene, poly vinyl chloride, polyamides, etc.).
- If a soft polymer has been exposed to the solution, rinse the component in DI water and filter *LILO-CUBL™* **immediately**.

Operation Parameters

- Keep the container/tank housing *LILO-CuBL™* covered at all times (when it is not being used and during plating).
- Cover should be made of a polypropylene or stainless steel. AVOID soft polymers (see notes), they may leech into the bath and compromise performance.
- Use between **50-60°C / 122-140°F** (Recommended: **50°C/122°F**)

Bath Maintenance

- Solution level is maintained at all times. If the solution level is dropped due to drag out; maintain the solution level with new solution.

Bath Analysis

- Ensure the pH of the solution between 11-13.
- Further bath analysis is optional; additional bath analysis information can be provided to ensure the active ingredients level (please reach out to LILOTREE (contact information on Page 3) for more information)
- Please keep track of the **total** work load/surface area immersed into the solution (area of copper pads)
- Please discard the solution 2 months after initial use

Bath Replenishment

- *LILO-CuBL™* cannot be replenished. Once the bath has been exhausted replace the solution before treating any more components (either active suggested area treated or 2 months after initial use)

Bath Life Information

- LILLO-CuBL can treat a surface area (active copper area) of ~2 sq. meters/3100 sq. inch per liter of solution

Cosmetic Information

- There will be slight visible change (matt pink appearance from shiny orange bare Cu appearance) on metal passivated by *LILLO-CuBL™* that can be seen with the naked eye.

Storage

- Avoid contact with eyes and skin. Avoid inhalation of vapor or mist.
- Keep away from sources of ignition – No smoking. Take measures to prevent the buildup of electrostatic charge.
- Keep container tightly closed in a dry and well-ventilated place.
- Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Store in a cool, dry area in accordance with all current regulations and standards.

Disposal

**NEVER POUR SOLUTION INTO PUBLIC WASTEWATER SYSTEMS
(e.g. Sinks, drains, toilets, etc.)**

Product:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging:

Dispose of as unused product.

Disclaimer

Review the TERMS AND CONDITIONS GOVERNING SALES document for LiloTree regarding all product and warranty information.

We provide support for our **Ni-ENIG-Premium™** products within our terms and conditions from our Redmond office.

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