



**Product Name:** Tlam SS 1KA,  
Tlam DS 1KA

**MSDS Number:** 053

### Material Safety Data Sheet

(Prepared in accordance with OSHA Hazard communication  
Standard 29 CFR 1910.1200 Section (g)(c)(1))

**Manufacturer's Name:** Laird Technologies  
4707 Detroit Road  
Cleveland, OH 44102  
**Date of Preparation:** September 2008

**Emergency Telephone Number**  
\*\*\* (216) 939 – 2300 \*\*\*  
**Information Telephone Number**  
\*\*\* (216) 939 – 2300 \*\*\*

#### Section 1: Product Identification

**Product Name:** Tlam SS 1KA Tlam DS 1KA

**Product Description:** Cured epoxy laminate between aluminum or copper sheet and copper foil.

**Chemical Family:** Mixture

**Formula:** Not Applicable

#### Section 2: Composition Information

Component	CAS Reg. #	Weight %
Copper**	7440-50-8	5 – 98
Aluminum	7429-90-5	0 – 90
Epoxy laminate	NA	1 – 20

**\*\*This is a toxic chemical subject to the report requirements of Section 313 of the Emergency Planning & Community Right-to-Know Act of 1986 and of 40 CFR Part 372.**

While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.

This product is a manufactured article, which does not release, or otherwise result in exposure to, hazardous chemical, under normal conditions of use.

#### Section 3: Hazards Identification

##### Potential Health Effects:

**Ingestion:** Moderately toxic. May cause nausea, vomiting, and diarrhea.  
**Skin:** Prolonged exposure may cause irritation.  
**Eyes:** Mildly irritating. May cause redness or watering of eyes on direct contact.  
**Inhalation:** At room temperature, exposure is not likely due to physical properties. Higher temperatures may cause vapor levels sufficient to cause irritation.

#### Section 4: First Aid Measures

**Ingestion:** Get medical attention. Do not induce vomiting unless large amounts are ingested or medical attention is not immediately available.

**Skin:** Wash with soap and water.

**Inhalation:** No emergency care anticipated

**Eyes:** Flush eye with water for 15 minutes. Seek if discomfort persists.

#### Section 5: Fire Fighting Measures

##### Flammable Properties

**Flash Point:** > 400° F by PMCC

**Flammable Limits:** LFL: Not Available  
UFL: Not Available

**Extinguishing Media:** Foam, CO<sub>2</sub>, dry, chemical, water spray.

**Special Firefighting Procedures:** Fire fighting personnel should wear positive pressure self-contained breathing apparatus for protection from decomposition products such as carbon monoxide, nitrogen oxides, phenols, and cyanides

#### Section 6: Accidental Release Measures

If the material is released it should be swept up using a broom and dustpan.

#### Section 7: Handling and Storage

Keep in a cool, dry, ventilated area. Practice caution and personal cleanliness to avoid contact with eyes, skin, and clothing. This product is essentially insoluble in water. It is resistant to rapid biodegradation and may be toxic to aquatic life. Avoid discharge to natural waters.

#### Section 8: Exposure Controls/Personal Protection

**Engineering Controls:** Good room ventilation is expected to be satisfactory for storage and handling. Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

**Personal Protective Equipment (PPE):** Where prolonged contact is likely, wear chemical resistant gloves, long sleeves, and safety glasses with side shields. A respirator is not required if good ventilation is maintained.

**General Hygiene Considerations:** Wash hands thoroughly after handling and before eating or drinking

**Exposure Guidelines:** None available

## Section 9: Physical / Chemical Properties

<b>Boiling Point:</b>	Not Available	<b>Volatile by Volume:</b>	Nil
<b>Density:</b>	Not Available	<b>Vapor Pressure:</b>	Not Available
<b>Solubility in Water @ 20°C:</b>	Insoluble	<b>Evaporation Rate:</b>	Not Available
<b>Vapor Density:</b>	Not Available	<b>Physical State:</b>	Solid
<b>Appearance:</b>	Green prepreg between metal sheets	<b>Odor:</b>	None

## Section 10: Stability and Reactivity

<b>Stability:</b>	Stable under normal use.
<b>Conditions to Avoid:</b>	Product generated flammable gas on contact with acids, bases, or oxidizing agents.
<b>Materials to Avoid:</b>	Strong oxidizing materials and bases.
<b>Combustion/Decomposition Products:</b>	Burning can produce carbon monoxide, carbon dioxide, silicon dioxide, and flammable hydrogen gas.

## Section 11: Toxicological Information

No toxicological data is available for this material.

## Section 12: Ecological Information

No specific ecological data for this material is available. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

## Section 13: Waste Disposal

Please refer to Sections 6, and 15 for disposal and regulatory information.

## Section 14: Transport Information

<b>DOT Shipping Name:</b>	Not Available
<b>DOT Hazard Class:</b>	Not Available
<b>DOT Label(s):</b>	Not Available
<b>UN/NA Number:</b>	Not Available
<b>IATA:</b>	Not Available
<b>IMO - IMDG Code:</b>	Not Available

### Section 15: Regulatory Information

<b>SARA Section 302:</b>	Not Regulated
<b>SARA Section 311, 312:</b>	Not Regulated
<b>SARA Section 313:</b>	Copper (CAS #7440-50-8) is a regulated material under SARA 313.
<b>Hazard Rating Systems:</b>	Not Regulated

### Section 16: Other Information

**NOTICE:** The information herein is based on data considered to be accurate at date of preparation. No warranty is made as to the accuracy or completeness of the foregoing data and safety information. No responsibility can be assumed by vendor for any damage or injury resulting from abnormal use from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.