



Product Name(s): SNK55-RXP
MSDS Number: 017

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- EMI Division
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Date of Preparation: April 14, 2007

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Section 1: Product Identification

Product Name: SNK55-RXP

Synonym: Conductive Silicone Elastomer

Chemical Family: Silicone Compound

Formula: Mixture

Section 2: Composition Information

Component	CAS Reg. #	Weight %
Silver ^{††}	7440-22-4	0 – 30%
Copper ^{††}	7440-50-8	10 – 60%
Xylene ^{††}	1330-20-7	5 – 15%

†† These materials are regulated under SARA Title III and TRI.

Section 3: Hazards Identification

Potential Health Effects:

Ingestion: Harmful if swallowed.
Skin: May irritate the skin and cause allergic skin rashes.
Inhalation: Excessive inhalation causes headaches, dizziness, nausea and lack of coordination.
Eyes: May cause severe eye irritation.

Medical Conditions Aggravated: Contact dermatitis

Subchronic Effects: None known

Chronic Effects/Carcinogenicity: This product contains no carcinogens or suspected carcinogens, in concentrations of 0.1% or greater, as defined by OSHA, ACGIH, NTP, and IARC.

Section 4: First Aid Measures

- Ingestion:** In the event ingestion of material occurs rinse the mouth with water several times. If swallowed, slowly dilute with 1-2 glasses of water and seek medical attention. Do not induce vomiting.
- Skin:** Remove contaminated clothing and launder before use. Wipe off and wash with soap and water.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration and obtain immediate medical attention.
- Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Section 5: Fire Fighting Measures

Flammable Properties:

Flash Point: Not applicable to solids

Flammable Limits: LFL: Not Available UFL: Not Available

Sensitivity to Static Discharge: Not expected

Extinguishing Media: Dry sand, dry chemical, CO₂, and foam extinguishers. Do not use water.

Fire & Explosion Hazards: None known

Special Firefighting Procedures: Wear positive pressure, self-contained breathing apparatus and protective clothing. Toxic fumes are emitted in a fire condition.

Section 6: Accidental Release Measures

Wear suitable protective clothing, chemical resistant gloves and goggles. Wipe or scrape up material and put into a container for disposal in accordance with federal, state, and local regulations. The container should be sealed, labeled, and stored in a cool, well ventilated area to await disposal.

Section 7: Handling and Storage

Keep container closed when not in use.

Store at less than 40° F to prevent premature curing of this product.

Store away from heat and sources of ignition.

Do not allow to come in contact with acidic, basic or oxidizing materials.

Use in well ventilated areas.

Avoid breathing vapors; if exposed to high vapor concentration, leave area at once.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Exhaust ventilation and eyewash stations.

Personal Protective Equipment (PPE): Where contact is likely, wear chemical resistant gloves and safety glasses.

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

NOTE FOR PERSONS WEARING CONTACT LENS: If skin contact has occurred, traces of silicone resin may remain on the skin for several days, even after through washing. Contact lenses should be removed prior to working with this product. The lenses should not be handled again until all traces of silicone resin have been removed from the hands, as the silicone resin could transfer to the contact lenses and cause severe eye irritation.

Exposure Guidelines: The product releases cyclohexylamine and 2-butanone oxime during application and curing. The silver coated copper particles present in SNK55-RXP are embedded within a matrix of silicone elastomer and will not become airborne under the intended conditions of use and therefore do not present an inhalation/carcinogenic hazard under normal circumstances.

Component	CAS	OSHA PEL	NIOSH REL
Copper	7440-50-8	TWA 1 mg/m ³	TWA 1 mg/m ³
Silver	7440-22-4	TWA 0.01 mg/m ³	TWA 0.01 mg/m ³
Xylene	1330-20-7	TWA 100 ppm	TWA 100 ppm
Cyclohexylamine	108-91-8	TWA 10 ppm	TWA 10 ppm

Section 9: Physical / Chemical Properties

Boiling Point:	Not applicable	Volatile by Volume:	< 15 %
Density:	2.7 – 3.2 g / cc @ 25° C	Vapor Pressure:	Not established
Solubility in Water @ 20°C:	Insoluble	Evaporation Rate:	Not established
Vapor Density:	3.7 (Air = 1)	Physical State:	Solid
Appearance:	Tan-silver paste	Odor:	Amine

Section 10: Stability and Reactivity

Stability:	Stable
Materials to Avoid:	None known
Hazardous Polymerization:	Does not occur

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, silicon dioxide, copper oxides, silver oxides, formaldehyde and hydrocarbons.

Section 11: Toxicological Information

Chronic absorption of silver metal may cause “**argyria**”, a blue/grey discoloration of various tissues. Localized argyria may occur on the skin from handling metallic silver as a result of particles becoming embedded in the skin.

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 5, 6, and 15 for disposal and regulatory information.

Section 14: Transport Information

DOT Shipping Name: None

DOT Hazard Class: None

DOT Label(s): None

UN/NA Number: None

IATA: None

IMO - IMDG Code: None

Section 15: Regulatory Information

SARA Section 302: Xylene is a listed chemical.

SARA Section 311, 312: Xylene is a listed chemical.

SARA Section 313: Silver, copper and xylene are listed chemicals.

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.