CHEMICALS

THINNERS & SOLVENTS

Polystyrene Q-Dope Thinner

For thinning polystyrene base coil dopes and cements. Can also be used for cementing polystyrene parts.

Part No. 10-4102	2 fl. oz. Bottle
N.S.N. 8010-00-063-1376	
N.S.N. 8040-00-902-1159	

Radio-TV Cement Solvent

Fast acting solvent formulated for use in speaker repair. Dissolves cement on speaker cones, spiders, frames, voice-coils. May also be used as a thinner for all lacquer type cements.

Part No. 10-312	2 fl. oz. Bottle
Part No. 10-318	8 fl. oz. Bottle
Part No. 10-320	16 fl. oz. Bottle
N.S.N. 8010-00-775-5893	
Part No. 10-321	1 gal. Can

Paint Thinner

All purpose mineral spirit type thinner and solvent for paint and varnish base products.

Part No. 10-6702	2 fl. oz. Bottle
N.S.N. 8010-00-054-1521	

Print Kote Solvent

A solvent to remove silicone and other types of protective coatings from PC boards. Required when modifying PC boards or replacing components where the protective coating interferes with the desoldering and resoldering operation.

Part No. 22-209	2 fl. oz. Bottle
N.S.N. 6810-00-711-2185	

COATINGS

Silver Print II
(Conductive Paint)

For PC repair or add-on circuit traces. Pure silver in acrylic lacquer based carrier may be brushed on for either conductors or shielding. Connections have equal or better conductivity than copper (0.1 ohms per square).

Part No. 22-023	1/2 troy oz. Bottle
Part No. 22-024	1 troy oz. Bottle

Red Insulating Varnish

Alkyd-based compound, especially resistant to environmental extremes including oils, water and most acids and alkalis. Retains its high dielectric strength even if wet and is, therefore, especially adaptable to the insulation of electrical and electronic devices or components which may be operated in a very humid climate and up to 250°F (121°C). For general insulation of coils, transformers, motor windings and for all-around protection against oxidation and atmospheric attacks.

Part No. 10-9002	2 fl. oz. Bottle w/Brush
N.S.N. 5970-00-901-5331	
Part No. 10-9002-1G	1 gal. can
Part No. 10-9008	8 fl. oz. Bottle

Nickel Print
(Conductive Paint)

A quick drying lacquer-based coating, pigmented with powdered nickel. For repair and modification of printed circuits. Conductivity is 5 to 6 ohms per square.

Part No. 22-207	2 fl. oz. Bottle

Print Kote Conformal Coating

The ultimate coating for PC boards provides a protective shield to resist environmental contaminants. Prevents arcing and shorting. Air dry 15 to 30 minutes. May be baked at 200°C for 30-60 minutes for extreme high temperature applications.

Part No. 22-203	2 fl. oz. Bottle
N.S.N. 8010-00-711-2173	

All quantities are single; BU's are packages of 10 Unless otherwise noted.

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Silicone resin solution
Product Name: **Print Kote Conformal Coating**
Part Number(s): **22-203**

Section 1 - Identification of Product

NFPA RATINGS

Health	1	Least	0
Flammability	3	Slight	1
Reactivity	0	Moderate	2
Personal Protection	B	High	3
		Extreme	4
Product Name: Silicone Resin Solution		Gloves, Safety Glasses	B

Note: NFPA = National Fire Protection Association

Section 2 - Hazardous Ingredients

Component	Cas Number	% Weight	Exposure Limits
Octamethyltrisiloxane (Silicone Resins) Dimethyl. Methylphenylmethoxy Siloxane	107-51-7 68952-93-2	>60 15-40	TWA 200 PPM See methyl alcohol comments
Toluene	108-88-3	3-7	OSHA PEL (final rule): 8 Hour TWA 200 PPM, Ceiling 300 ppm 10 minutes maximum duration 500 ppm../ ACGIH TLV- Skin: TWA 50 PPM.
Methyltrimethoxysilane	1185-55-3	3-7	TWA 50 PPM. Also see methyl alcohol comments.

Comments: Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 200 PPM and ACGIH TLV-Skin: TWA 200 PPM, STEL 250 PPM

The above components are hazardous as defined in 29 CFR 1910.1200.

Warning: This product contains Toluene, known to the State of California to cause birth defects or other reproductive harm.

Section 3 - Physical Data

Physical form:	Liquid
Color:	Translucent
Odor:	Some odor
Specific Gravity @ 25C:	0.9
Viscosity:	350.00 cSt
Freezing/Melting Point:	Not Determined
Boiling Point:	101°C
Vapor Pressure @ 25C:	Not Determined
Vapor Density:	Not Determined
Solubility in Water:	Not Determined
pH:	Not Determined
Volatile Content:	Not Determined

Note: The above information is not intended for use in preparing product specifications.

Section 4 - Fire & Explosion Hazard Data

Flammability Limits in Air:	Not Determined
Flash Point (closed cup):	62.6°F/17°C (Seta Closed Cup)
Autoignition Temperature:	Not Determined

Extinguishing Media: On large fires use medium expansion (>30:1) AFFF alcohol compatible foam or water spray. On small fires use medium expansion (>30:1) AFFF alcohol compatible foam or CO2 or water spray. Water can be used to cool fire exposed containers.

Unusual Fire Hazards: Fire burns more vigorously than would be expected. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Hazardous Decomposition products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Metal Oxides. Formaldehyde.

Suitable Respirator:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Section 9 – Special Precautions

Handling and Storage:	Use with adequate ventilation. Product evolves flammable methyl alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within Section 2 and 8 guidelines or use air-supplied or self-contained breathing apparatus. Traces of benzene (carcinogen) may form if heated in air above 300°F (149°C). Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements. Avoid breathing vapor, mist, dust and fumes. Keep container closed. Avoid eye contact. Do not take internally. Avoid skin contact. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and store away from water , moisture, heat, sparks or flame.
Disposal Considerations RCRA Hazard Class (40 CFR 261)	When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes
Federal Hazardous Waste Code:	NA
Characteristic Waste:	Ignitable: D001

State or local laws may impose additional regulatory requirements regarding disposal.

NA= Not Applicable

Section 10 - Regulatory Information

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of chemical Substances.