

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

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Coating
 Product Name: **Red Insulating Varnish**
 Part Number(s): **10-9002**
10-9002-1G
10-9008

Section 1 – Identification of Product

HMIS RATINGS

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

Section 2 – Hazardous Ingredients

Ingredient	CAS #	% Wght	VP (mmHg)	VD		ppm	mg/m3
Ethyl Benzene*		< 10	7.0	> 1	OSHA	100.00	435.00
	100-41-4		@ 20°C		ACGIH	100.00	434.00
Xylene (Mixed Isomers)*		< 43	6.7	ND	OSHA	100.00	435.00
	1330-20-7		@ 21°C		ACGIH	100.00	434.00
Iron Oxide		< 18	NA	NA	OSHA	ND	15.00
	1332-37-2				ACGIH	ND	10.00
Cobalt Compounds*		< 1	ND	ND	OSHA	ND	0.1000
	Mixture				ACGIH	ND	0.0500

*Appears in Section 313 of the Toxic Chemicals list of Title III of the Superfund Amendment and Reauthorization Act (SARA) of 1986.

All components of this product are listed on the TSCA Section 8 (b) Inventory or are exempt from the inventory.

Section 3 – Physical Data

Boiling Point:	> 200°F
Evaporation Rate (Butyl Acetate=1)	No data
Weight Per Gallon (25°C):	9.054 lbs/gl
Vapor Density (Air=1):	No data
Volatile by Weight:	50.0%
Volatile by Volume:	63.0%
Specific Gravity:	1.09
VOC:	For compliance with VOC regulations, the VOC content must be calculated on an “as applied” basis. The volatile by weight and volatile by volume data on this MSDS should not be used to determine compliance with VOC regulations.

Section 4 – Fire and Explosion Hazard Data

Flammability Classification:	OSHA: Flammable Liquid – Class IC
Flash Point:	78°F estimate
Lower Explosive Limit (LEL):	No data
Upper Explosive Limit (UEL):	No data
Extinguishing Media:	Carbon dioxide, dry chemical, foam, and vaporizing liquid type extinguishing agents have all been found suitable for use on flammable liquid fires of moderate size. Water spray (fog) is particularly effective on fires in flammable liquids and volatile solids having flash points above 100°F; but with liquids having flash points above 212°F, frothing may occur.
Unusual Fire and Explosion Hazards:	A straight stream of water will spread fire. A vapor accumulation will flash and/or explode if ignited. Containers may burst explosively if overheated in fire. Cool containers with water spray or fog. Empty containers may also present a fire and/or explosion hazard due to residual vapors.
Special Fire Fighting Procedures:	Remove all ignition sources. Keep personnel not involved with emergency activities away and upwind of fire. Water spray may be ineffective and may cause fire to spread. If water is used, fog nozzles are preferable. Water may be used to cool closed containers in order to prevent pressure build-up which may result in an explosion. Use self-contained breathing apparatus and protective clothing.

Section 5 – Health Hazard Data

Primary Route(s) of Entry:	<u>4</u> Inhalation <u>4</u> Skin Contact ___ Ingestion
Exposure Limit:	Refer to Section 2 for complete PEL/TLV data.
Acute Effects of Overexposure:	
Inhalation:	Breathing high concentrations of vapors or mist may cause upper respiratory tract irritation and may be associated with cardiac irregularities. May affect the brain or nervous system, causing dizziness, headache, or nausea.
Skin Contact:	Prolonged or repeated contact can cause moderate irritation defatting, and dermatitis.

Section 10 – Regulatory Information
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DOT Description:
 Shipping Name: Paint
 Hazard Class: 3 (CFR49 173-150) Exceptions for Class 3 (flammable) and combustive liquids.
 UN/NA #: UN1263
 Packing Group: III
 Label: ORM-D
 Description: Xylene Mixture

Toxic Substances Control Act (TSCA) Status: All components of this product are listed on the TSCA Section 8(b) Inventory or are exempt from the inventory.

SARA Section 312 Hazard Categories: 4 Fire Hazard
 ___ Pressure Hazard
 ___ Reactivity Hazard
4 Acute Health Hazard
4 Chronic Health Hazard

SARA Section 313 Status:	CAS Number	Weight %
Component/Category Name		
Ethyl Benzene	100-41-4	< 10
Xylene (Mixed Isomers)	1330-20-7	< 43
Cobalt Compounds		< 1

Massachussetts Right to Know:	CAS Number	Weight %
Component		
Ethyl Benzene	100-41-4	< 10
Xylene (Mixed Isomers)	1330-20-7	< 43
Benzene	71-43-02	Trace

Pennsylvania Right to Know:	CAS Number	Weight %
Component		
Ethyl Benzene	100-41-4	< 10
Xylene (Mixed Isomers)	1330-20-7	< 43

California Proposition 65 Status:
 Warning: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.