

Materials Safety Data Sheet

CP0198 / 1

Stock Number: 496-265

Circuit Works Conductive Epoxy

Section 1.	Identification of the Substance / Preparation and Company.				
Product Name: Supplier:	2400 Conductive Epoxy RS Components Ltd., P.O.Box 99, Corby, Northants., NN17 9RS (+44) 0(1)536-402888				
Section 2.	Composition/Information on Ingredients				
Ingredient	%range	Sym/let	Risk Phrases		
Resin Bisphenol A epoxy resin	10-40	Xi	Irritating to eyes and skin. May cause sensitisation by skin contact.		
Silver (metallic)	60-90	-	—		
7 Other components	1-10	_	_		
<u>Hardener</u> Modified polyamine	60-90	Xi	Irritating to eyes and skin. May cause sensitisation by skin contact.		
Silver (metallic) Other components	10-40	_			
	1-10 — —				
Section 3.	Hazards Identification				
	Severe skin and eye irritant, respiratory irritant and skin sensitiser.				
Section 4.	First Aid Measures				
Inhalation:	Remove to fresh air. Administer oxygen is breathing is difficult.				
Skin Contact:	Immediately remove any contaminated clothing and wash thoroughly with soap and warm water.				
Eye Contact:	Irrigate immediately and continuously with clean, flowing water for at least 30 minutes.				
Ingestion:	Do not induce vomiting. Give water or milk to drink.				
Medical Notes:	If any adverse symptoms persist seek immediate medical attention.				
Section 5.	Fire-Fighting Measures				
Suitable Extinguishing Media:	Dry powder, foam, CO ₂ . Polymer foam for large fires.				
Do not use:	N.A.				
Exposure Hazards:	Oxides of nitrogen, carbon, ammonia; aldehydes and acids from incomplete combustion.				
Protective Measures:	Fire-fighters should wear self-contained breathing apparatus and protective clothing.				
Section 6.	Accidental Release Measures				
Personal precautions:	Refer to section 8; Personal Protection.				
Environmental Precautions:	Refer to Section 13; Disposal.				
Methods of clearing up:	Absorb spillage onto inert material. Scrape up and discard in suitable containers. Wash spill area with an industrial cleaning agent. If solvent is used for cleaning, take precautions against fire and personal overexposure.				

Section 7.	Handling and Storage				
Handling:	Keep away from eyes when handling material or before washing after use. Avoid skin contact. Wash thoroughly after using, particularly before eating or drinking.				
Storage:	Store in a cool, dry place.				
Section 8.	Exposure Controls/Personal Protection				
Engineering Measures:	Local exhaust is recommended for prolonged or repeated use. Effective mechanical ventilation is required for occasional use. If cured material is sanded or machined, use proper precautions.				
Personal Protection:	Respiratory protection not needed in normal use. In poorly ventilated areas use NIOSH-approved organic vapour mask. Wear safety glasses with side shields or splashproof goggles. Wear chemical-resistant rubber gloves. Other protective clothing as required to prevent skin contact.				
Section 9.	Physical and Chemical Proper	ties			
Appearance/Colour:	Silver grey paste	Flammability:	Low		
Odour:	Hardener has amine odour	pH:	N.A.		
Boiling Point/Range °C:	Resin >93 : Hardener 154	Melting Point *C:	N.A.		
Flash Point °C:	Resin >93 : Hardener 120	Auto Ignition temp *C:	N.D.		
Relative Density:	Resin 2.5-2.8:Hardener 2.8-3.5	Solubility/Miscibility:	Separate parts have low		
Vapour Pressure @ 20°C:	>0.1 mmHg (Resin)		solubility in water.		
	<0.1 mmHg (Hardener)	Vapour Density (air≔1):	Hardener >1		
Evaporation Rate: (n-Butyl Acetate=1)	<1 for both parts	Conductivity:	No data in uncured state.		
Section 10.	Stability and Reactivity				
Stability:	Stable				
Conditions to Avoid:	Open flame and excessive heat. Heat is generated when both parts are mixed.				
Materials to Avoid:	Strong oxidising agents, acids a	nd chlorinated organic compo	ounds.		
Hazardous Decomposition Products:	Oxides of nitrogen, carbon and	ammonia. Aldehydes and ac	ids from incomplete combustion.		
Hazardous Polymerisation:	WILL NOT occur.				
Section 11.	Toxicological Information				
Toxic effects arising from ex	posure based on experimental/nor	experimental data	77 7		
LD ₅₀ Values	Bisphenol A epoxy resin >2.5g / kg (Oral Rat) : >2.3 g / kg (Dermal Rabbit) Modified Alphatic Amine >2.6 g/Kg (Oral Rat) : >2.0 g/Kg (Dermal Rabbit)				
Chronic Effects of Overexpo	<u>sure</u>				
	Contains Polyethylene polyamin	es which are reported to cau	se liver and kidney damage.		
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Section 12.	Ecological Information				
	Ecological Information	xicity			
					
	ects and behaviour/ODP/aquatic to				
Possible environmental effe	cts and behaviour/ODP/aquatic to	or natural environment.			



Section 14.	Transport Information					
1	Product is not classified as hazardous for transportation.					
Section 15.	Regulatory Information					

Labelling Information

Indication of Danger:

Black St. Andrew's Cross. Irritant.

Contains: Risk Phrases:

Epoxy constituents - see information supplied by the manufacturer.

Irritating to eyes and skin.

May cause sensitisation by skin contact.

Safety Phrases: Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After contact with skin, wash immediately with plenty of soap and warm water.

Occupational Exposure Limits

Long-term exposure limit (8 hour TWA) Short-term exposure limit (15 min period)

<u>Substance</u>

(8 hour TWA)
ppm mg/m³

eem ma/m²

Silver (metallic)

- 0.01

Ref: HSE Guidance notes EH40 / 94

Section 16	Other Information Prolonged or repeated overexposure may cause sensitisation and allergic response. Persons so affected should consult a doctor and if sensitisation is confirmed, should avoid further exposure to material. Use only for the purpose intended and as advised in the usage instructions. Potential hazards to Health and Safety based upon research and experience in use.		
Recommended uses and restrictions:			
Publication refs:	Compiled in accordance with CHIP Regulations 1993. HSC Approved Code of Practice, Document L37.		
Section 17.	Section Revision and Dates		

Section: Change: Date:

<u>Legend:</u>

N.A.=Not Applicable or Not Available.
N.D.=Not Determined or Not Determinable.

Est.=Estimated.

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The above information has been complied from that provided by our suppliers and other sources. None of the original information relating to hazards or potential hazards has been omitted, and so the absence of a particular reference merely implies either that such information has not been determined or that it is not applicable. Should amendments become necessary, these will be published in future issues and forwarded to your organisation.

