



MATERIAL SAFETY DATA SHEET
CHEMTRONICS CTXY5
CIRCUITWORKS FAST SETTING EPOXY

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING				
COMMERCIAL PRODUCT NAME: CIRCUITWORKS FAST SETTING EPOXY		CODE NO. CTXY5		
MANUFACTURER/SUPPLIER:		CHEMTRONICS, INC. 8125 Cobb Center Drive Kennesaw, Georgia 30152 USA		
Phone Number:		1-770-424-4888		
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EMERGENCY:		1-703-527-3887		
2. COMPOSITION/INFORMATION ON INGREDIENTS				
Hazardous Components in Product for EC				
COMPONENT NAME	CAS No.	CLASSIFICATION	R PHRASES	CONCENTRATION
Polyethylene Amines	111-40-0	xi	R36/38	20.00 - 60.00
Epoxy Resin (Av Mol Wt. <700)	025068-38-6	xi	R36/38	50.00 - 90.00
R36/38		Irritating to eyes and skin.		
3. HAZARDS IDENTIFICATION				
Main Hazards	Parts A & B - Irritating to eyes and skin. May cause sensitization by skin contact.			
Health Effects - Eyes	Parts A & B - Liquid will cause conjunctival and possibly corneal damage.			
Health Effects - Skin	Parts A & B - Material will cause irritation. Repeated and/or prolonged contact may lead to dermatitis. Prolonged or repeated contact may cause itching and soreness and possible sensitization.			
Health Effects - Ingestion	Parts A & B - Swallowing may have the following effects: irritation of mouth, throat and digestive tract.			
Health Effects - Inhalation	Part A - No specific measures necessary. Part B - Exposure to vapour at high concentrations may have the following effects: irritation of nose, throat and respiratory tract. Exposures during normal handling and use are likely to be well below those that would be expected to produce the above effects.			
4. FIRST-AID MEASURES				
First Aid - Eyes	Parts A & B - Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.			
First Aid - Skin	Parts A & B - Wash skin thoroughly with soap and water. If material proves difficult to remove, use suitable skin cleanser (not solvent).			
First Aid - Ingestion	Parts A & B - Wash out mouth with water. Do not induce vomiting. Obtain medical attention urgently.			
First Aid - Inhalation	Part A - No specific measures necessary. Part B - Remove from exposure.			

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5. FIRE-FIGHTING MEASURES	
Extinguishing Media	Parts A & B - Use foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media:	Do not use waterjet.
Special Hazards of Product:	This product may give rise to hazardous fumes in a fire.
Protective Equipment for Fire-Fighting:	Wear self contained breathing apparatus.
6. ACCIDENTAL RELEASE MEASURES	

Personal Precautions:	Part B - Ventilate the area. Parts A & B - Wear appropriate protective clothing. Material can create slippery conditions underfoot.
Environmental Precautions:	Try to prevent the material from entering drains or water courses.
Spillages:	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Handling:	Parts A & B - Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and the potential for exposure. Use of the basic principles of Industrial Hygiene will enable this material to be used safely.
Storage:	Parts A & B - Storage area should be: dry and under cover. Storage temperature should be controlled to between 1 and 40° C. Part B - This material is hygroscopic.

8. EXPOSURE CONTROLS /PERSONAL PROTECTION

Engineering Control Measures	Parts A & B - Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Use of the basic principles of Industrial Hygiene will enable this material to be used safely.
Respiratory Protection	Parts A & B - Respiratory protection not normally required.
Hand Protection:	Parts A & B - PVC or rubber gloves.
Eye Protection:	Parts A & B - Chemical goggles.
Body Protection:	Normal work wear.
Protection During Application:	Parts A & B - Mix in a well ventilated area. If ventilation is poor, wear respiratory protection. During application, adequate ventilation must be provided.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Parts A & B - Viscous liquid.
Colour:	Part A - Dark Grey. Part B - Yellow.
Odour:	Parts A & B - Characteristic.
Boiling Range/Point (°C):	Parts A & B - Not determined.
Flash Point (PMCC) (°C):	Parts A & B - Exceeds 100.
Solubility in water (kg/m³):	Parts A & B - Insoluble.
Density (kg/m³):	Parts A & B - >1. (measured as kg/litre)
Auto Flammability (°C):	Parts A & B - Above 100.
Viscosity (cSt):	Parts A & B - Viscous liquid at ambient temperatures.

10. STABILITY AND REACTIVITY

Stability:	Part A - Stable under normal conditions.
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Conditions to Avoid:	Polymerization will continue if exposed to: free radical initiators. Part B - Hygroscopic.
Materials to avoid:	Parts A & B - High temperatures.
Hazardous Decomposition Products:	Parts A & B - Strong oxidizing agents.
	Part A - Combustion will generate: toxic fumes, smoke, possibly thick and choking, resulting in zero visibility. Part B - Combustion will generate: oxides of nitrogen, toxic fumes, smoke, possibly thick and choking, resulting in zero visibility.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	Parts A & B - Acute toxic effects are unlikely to occur in practice because of the warning provided by irritant effects.
Irritancy - Eyes	Parts A & B - Data for a closely related material suggest that this product may cause irritation of the eye.
Irritancy - Skin	Parts A & B - Data available for a related material suggests that this product may cause skin irritation.
Skin Sensitization	Part A - The low molecular weight epoxy resin is a potential skin sensitizer. Part B - The possibility of allergic sensitization should be considered.

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12. ECOLOGICAL INFORMATION

Mobility:	Parts A & B - The product is involatile and insoluble and will accumulate in the ground. If released to water the product will sink.
Persistence/Degradability:	Parts A & B - The product is expected to be resistant to biodegradation.
Bio-accumulation:	Parts A & B - Product is not expected to bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Product Disposal	Parts A & B - Incineration. Dispose of in accordance with all applicable local and national regulations.
Container Disposal:	Parts A & B - Labels should not be removed from containers until they have been cleaned. Dispose of containers with care.

14. TRANSPORTATION INFORMATION

UN Class	Not Classified
UK Classification	Not Classified
ADR/RID - Class	Not Classified
IMDG - Class	Not Classified
IATA - Class	Not Classified

15. REGULATORY INFORMATION

Labeling Information

X Irritant

R Phrases:	Parts A & B - Irritating to eyes and skin.
S Phrases:	Parts A & B - After contact with skin, wash immediately with plenty of soap and water. Wear suitable gloves and eye/face protection.
Contains:	Epoxy Constituents (Av. Mol. Wt. <700). For information contact the manufacturer.

16. OTHER INFORMATION:

Product Use:	For industrial use only.
MSDS first issued:	4/07/98
MSDS data revised:	4/07/98
EC Legislation	EC Directive 91/155/EEC defining the laying down and detailed arrangements for the system of specific information relating to dangerous preparations. EC Directive 88/379/EEC relating to the classification, packaging and labelling of dangerous preparations. UK Guidance Publications EH40, Occupational Exposure Limits, HSE. Revised Annually

To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot guarantee that these are the only hazards that may exist. This MSDS, therefore, forms a component only of a risk assessment carried out by or on behalf of the user.