



MID (China) Composite Company Limited

米德(中国)复合材料有限公司

编号: EFI0932a1A

PRODUCT NAME: EPOPOL 0932

DESCRIPTION:

Formulated epoxy resin composition containing no flammable solvents. Suitable for the encapsulation of transformers and coils for the electronic and electrical industries. A wide range of properties are obtained with various selection of **EPOLINK** curing agents.

SPECIFICATION:

Weight per Epoxy	490 - 510
Viscosity 20 Deg C	100,000 - 140,000 Cps Flash Point
126 Deg C PMCC Specific Gravity	1.67 - 1.71
Color	Various

TYPICAL PROPERTIES: [Epolink 945]

Mixing Ratio	100 Epopol 7042: 16 Epolink 945 w/w
Mixed Viscosity	9,000 cps 20 °C Mixed Density
	1.55 kg/ltr
Shore D	80
Cure Schedule	4 Hrs @ 80 °C

Flexural Properties ASTM D790-90

Modulus	5200 - 5400 Mpa
Stress	60 - 70 Mpa

Compressive Properties ASTM D695-91

Modulus	1200 - 1400
Stress	75 - 80 MPa

Thermal coefficient of Expansion	67 x 10 ⁻⁶ cm/cm/	ASTM D-
Dielectric Strength	410 V/M	
Arc Resistance	118 seconds	
Heat Resistance	0.37% wt loss 168hrs @ 130 c	
Shrinkage, Linear	1.0 %	

Date of printing: 2007-6-19 supersedes all other previous issues.

IMPORTANT NOTE:

The specification listed above is given to the best of our knowledge, however, it is given without any warranty expressed or implied. The specification is subject to change without notice. Consult **QUALITY CONTROL REPORT** available for each Batch for actual results. Consult **MATERIAL SAFETY DATA SHEET** for handling of material.



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: EPOPOL 0932

Description: Modified Epoxy Resin

Manufacturer's Code: F232
Hazchem Code: Not applicable
Poisons Schedule: 5

U.N. Number: N/A
Dangerous Goods Class: N/A
Risk: Irritant



USE: In conjunction with epoxy hardeners for Civil Engineering.

PHYSICAL DESCRIPTION/PROPERTIES:

Appearance: Coloured Paste
Specific Gravity: 1.70
Flash Point: 154 Deg C PMCC
Odour: Not available

Percent Volatile: < 1%
Flammability Limits: N/A
Auto Ignition: Not Determined
Boiling Point: Not Determined

HAZARDOUS INGREDIENTS:

Chemical Entity	C.A.S. No.	Haz	R-phrases	Concentration
Epoxy resin	025085-99-8	Xi	R36/38-R43	30% - 50%
Epoxy diluent	068909-97-2	Xi	R36-R38-R43	5% - 15%
Non-Hazardous ingredients				to 100%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS:

Short Term Hazards (Acute Exposure):

Inhaled: Not expected to be an inhalation hazard by this route, due to the low vapour pressures of the components at ambient temperatures.

Skin Contact: A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts.

Eye Contact: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

Swallowed: Acute oral toxicity has not been determined. Acute oral toxicity (rat) for components of this product are each in excess of 2000 mg/kg.

Long Term Hazards (Chronic Exposure):



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Inhaled: Prolonged exposure to high concentrations of vapour may affect the central nervous system.

Skin Contact: Product may be a skin sensitiser in some individuals.

Eye Contact: Corneal injury.

Systematic and other effects: Diglycidyl ether of Bisphenol A (Base epoxy resin) that is representative of the current manufacturing process is not believed to be a cancer hazard to humans. Did not cause birth defects or other adverse effects on the foetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure. Results of mutagenicity tests in animals have been negative. Has been shown to be negative in some "in vitro" (test tube) mutagenicity tests and positive in others.

FIRST AID:

Inhaled: If effects occur, remove to fresh air. Seek Medical attention.

Skin Contact: Wash skin thoroughly with soap and flowing water for 15 minutes. **DO NOT** use solvents to remove product from skin. It is recommended to remove contaminated clothing immediately. Wash clothing thoroughly before re-use. Discard contaminated footwear.

Eye Contact: Hold eyes open and wash thoroughly with flowing water for 15 minutes. Seek prompt medical attention by a doctor.

Swallowed: Do **NOT** induce vomiting. Give glass of water. Call a doctor and/or transport to a hospital promptly.

ADVISE TO DOCTOR:

No specific antidote. Supportive care. Treatment based on the judgement of the doctor in response to the reactions of the patient. Skin contact may cause dermatitis; treat as any contact dermatitis.

PRECAUTIONS FOR USE

EXPOSURE LIMITS: Not established for product or individual components.

VENTILATION: Provide general and / or local exhaust Ventilation, depending on type of operations, to control airborne exposures.

PROTECTION:

Respiratory: Not required for normal operations. For emergency conditions, use an approved positive pressure self-contained breathing apparatus.

Hands: Wear body-covering clothing. Protect hands with impervious gloves when handling or using this product. Wear boots.

Eyes: Wear chemical goggles. Eye wash facilities should be located in the immediate work area. Selection and the use of personal protective equipment should be in accordance with the recommendations in one or more of the relevant Australian Standards, including:



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AS 1336:	Recommended practices for eye protection in the industrial environment. AS/NZS 1337:
AS/NZS 1715:	Selection, use and maintenance of respiratory protective devices.
AS 2161:	Industrial safety gloves and mittens (excluding electrical and medical gloves).
AS/NZS 2210:	Occupational protective footwear.
AS 2919:	Industrial clothing.

FLAMMABILITY:

Non-Flammable liquid. Will support combustion.

SAFE HANDLING INFORMATION

REGULATORY INFORMATION

RISK PHRASES:	R20/22	Harmful by inhalation, and if swallowed.
	R36/38	Irritating to eyes and skin
	R43	May cause sensitisation by skin contact

SAFETY PHRASES:	S24/25	Avoid contact with skin and eyes
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28	Do not breathe vapour
	S37/39	Wear suitable protective gloves and eye/face protection.

STORAGE

Store in cool place away from heat and ignition sources. Keep partially used product containers closed. Store away from foodstuffs, clothing and keep out of reach of children. Store away from amines.

TRANSPORT INFORMATION

This product is not classified as a dangerous good in the Australian Dangerous Goods Code by reference to a specific substance name or a generic substance name or group.

SPILLS AND DISPOSAL

Soak up in an absorbent material, such as sand, sawdust or an absorbent clay. Place in secure container for disposal. Burn in an adequate incinerator or bury in an approved landfill in accordance with State and/or Local government regulations.

FIRE/EXPLOSION HAZARD

Extinguish with foam, water, dry chemical or carbon dioxide. Drums may rupture when exposed to fire conditions. Wear positive pressure self-contained breathing apparatus. Decomposition products include phenolics, carbon monoxide and water.

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IMPORTANT NOTE:

Data quoted is typical for the product, but does not constitute a specification, and is based on the most accurate



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information available to MID (Tianjin) at the time of writing. All information contained herein is given in good faith, but is subject to change without notice.