

MATERIAL SAFETY DATA SHEET

Product Name: EP-FD BARRIER EPOXY
Components A and B

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer/Supplier: Endura Manufacturing Co. Ltd.
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Product Name: EP-FD BARRIER EPOXYI
Item Number: UN 1263 Cl 3 PG II
Chemical Family: Ketone, Alcohol, Esters
Material Use: 2 component Epoxy Barrier coat – mix one part Component “A” to one part Component “B”

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	C.A.S.	LD/50, ROUTE, SPECIES	LC/50, ROUTE, SPECIES	TLV	% WT		
<u>Component A</u> Pigmented Epoxy Resin Solution							
Parachlorobenzotrifluoride	98-56-6	>6.8g/kg rat	4479 ppm rat	N/A	10-20		
Ethanol, 2-propoxy	2807-30-9	3090 & 4450 mg/kg o-r mg/kg s-rbt	2300 ppm/4h i-r	N/A	10-20		
quartz	14808-60-7	N/A	N/A	0.05 mg/m ₃	15 – 30		
<u>Component B</u> Polyamide Solution							
Parachlorobenzotrifluoride	98-56-6	>6.8g/kg rat	4479 ppm rat	N/A	30-40		
Ethanol, 2-propoxy	2807-30-9	3090 & 4450 mg/kg o-r mg/kg s-rbt	2300 ppm/4h i-r	N/A	10-20		
1,1, dimethylethylester	540-88-5	4500mg/kg o rat	4211 ppm rat	N/A	10-30		
unsaturated fatty acids dimers	68082-29-1	N/A	N/A	N/A	10 – 30		
legend:	o=oral	r=rat	d=dermal	i=inhalation	rbt=rabbit	fr=female rat	p=intraperitonea l
See Sax, N.I. “Dangerous Properties of Industrial Materials” for more information.							

SECTION 03: HAZARDS IDENTIFICATION

Eye Contact: Moderately irritating to eyes and can cause tissue damage.
Skin Contact: Low toxicity. Extended contact can cause irritation and dermatitis. May be absorbed through skin and cause nausea, headache and general discomfort.
Inhalation: Vapors are of low to moderate toxicity when inhaled and are irritating to nose, throat and other respiratory passages, especially in higher concentrations. Extended exposure can cause headache, dizziness, nausea or even loss of muscular control and coordination, narcosis or unconsciousness.
Ingestion: Liquid is of low to moderate toxicity when ingested, but can be hazardous if aspirated into lungs during swallowing or vomiting. Component B may cause irritation to the gastrointestinal tract.
Additional Information: Chronic hazards include narcosis, specific organ damage, permanent brain and nervous system damage or coma if extensively abused. MEK has shown teratogenic effects in laboratory animals. Carbon black is a possible carcinogen.

SECTION 04: FIRST AID MEASURES

Inhalation (acute): Remove to fresh air and if necessary restore breathing by giving artificial respiration. Administer oxygen if victim is breathing with difficulty. GET IMMEDIATE MEDICAL HELP. GET MEDICAL ATTENTION IMMEDIATELY. Due to the possibility of aspiration into the lungs, do not induce vomiting. Give 1 or 2 glasses water or milk, BUT ONLY IF VICTIM IS CONSCIOUS.
Ingestion: Check for and remove any contact lenses. Flush eyes IMMEDIATELY with water for 15 minutes and get immediate medical help.
Eye Contact: Wash with soap and water. Clean contaminated clothing before reuse.
Skin Contact: Treatment is symptomatic. There is no specific antidote. See list of ingredients.
Notes to Physician:

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SECTION 05: FIRE FIGHTING MEASURES

Flash Point (°C), (TCC):..... 4.4
Auto Ignition Temperature (°C): 518
Upper Explosive Limit (% Vol):... 7
Lower Explosive Limit (% Vol):..... 1
Extinguishing Media:..... CO₂, foam, dry chemical. Avoid using water except as a fog.
Hazardous Combustion Products:..... CO, CO₂, Various hydrocarbons. Possibly oxides of Nitrogen or Sulphur. Toxic or irritating products.
Sensitivity To Mechanical Impact:..... None
Sensitivity To Static Discharge:..... Can ignite vapors
Special Fire Fighting Procedures:..... Wear self-contained breathing apparatus and full protective clothing. Extreme heat may cause pressure build-up in containers and possibly explosion, therefore use water to keep containers cool.
Conditions of Flammability:..... Sparks, open flame, static discharge or extreme temperature. Vapors from this product are heavier than air and may travel or be moved by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from the point of handling.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak / Spill and Clean up:..... Remove all sources of ignition. The product should be contained and absorbed with inert materials and placed into a container. Do not seal the containers until any gas, which might form, has done so.

SECTION 07: HANDLING AND STORAGE

Handling Procedures:..... Avoid static charges, sparks, flames, ignition sources, excessive heat. Keep containers tightly closed and upright when not in use. Do not allow contact with skin or eyes, and don't breathe vapors. Electrical and mechanical equipment should be explosion-proof.
Storage Needs:..... Store in a cool, dry place.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**PROTECTIVE EQUIPMENT**

Eye/Type:..... Personnel should wear liquid chemical goggles or a full-face shield.
Respiratory/Type:..... Personnel should wear a suitable air supplied respirator.
Gloves/Clothing/Footwear/Type: Personnel should wear chemical-resistant clothing, gloves and footwear.
Other/Type:..... A safety shower and eye wash facility should be available.
Ventilation Requirements:..... Adequate ventilation must be assured to prevent the accumulation of dangerous amounts of vapor or mist.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

NOTE: Differences between Components "A", "B" and their Mixture are specified as A, B and M

Odor:..... Solvent
Density (g/ml):..... A: 1.60 B: 1.0 M : 1.3
Odor Threshold (ppm):..... N/A
Vapor Pressure (@20°C):..... 41 mm Hg
Vapor Density (Air=1):..... Heavier than air
Evaporation Rate:..... N/A
Boiling Point (°C):..... 75
pH:..... N/A
Solubility in Water (% W/W):... N/A
Coefficient of Water/Oil Distribution: N/A
Freezing Point (°C):..... <0
Melting Point (°C):..... N/A
VOC:..... M - 244 g/l or 2.0 lbs/gal

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Incompatibility:.....

Reactivity Conditions:..... Both components and their mixture will react dangerously with oxidizing materials

Conditions to Avoid:.....

SECTION 11: REGULATORY INFORMATION

WHMIS Classification:..... B-2, D-2A, D-2B

SECTION 12: DISPOSAL CONSIDERATIONS

Waste Disposal:..... Dispose of waste according to local, provincial and federal regulations. Utilize authorized centers for disposal of combustible chemical material.

SECTION 13: TRANSPORT INFORMATION

T.D.G. Classification:..... Shipping name: Paint. UN 1263, CI 3, PG II.

SECTION 14: OTHER INFORMATION

Note:.....

Prepared By:..... Endura – Information Systems

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