

MATERIAL SAFETY DATA SHEET

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1. PRODUCT NAME:

TopMark® Bonder Paste, Low Modulus (mod.), Part A

Chemical Family: Epoxy resins, diluent, fillers.

2. HAZARDOUS INGREDIENTS

NAME	CAS No.	TLV	STEL	PEL	CONTENT
Epoxy resin	25068-38-6	none	none	none	58-68%
Aliphatic glycidyl ether	74398-71-3	none	none	none	20-30%
Cresyl glycidyl ether	2210-79-9	none	none	none	1-3%

reference section 7, Health Hazard Data for LD (50)

3. PHYSICAL DATA:

Boiling Point:	>200 C	Water/Oil Distribution Coefficient:	N/D
Percent Volatile:	Slight	Solubility in Water:	Slight
Freezing Point	N/D	Specific Gravity:	1.14
Vapor Pressure@ 20C:	N/D	pH:	N/D
Vapor Density	Heavier than air	Evaporation Rate:	N/D
Odor Threshold	N/D	Odor	Slight
Appearance	Amber liquid		

N/D = Not Determined

4. FIRE AND EXPLOSION HAZARD DATA:

HMIS Flammability Rating:		1 - (Slight Hazard)
Flash Point:	>92 C (200 F) PMCC	
Auto Ignition Temperature:	N/D	
Limits of Flammability:	LEL: N/D	UEL: N/D
EXTINGUISHING MEDIA:		
CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG		
SPECIAL FIRE & UNUSUAL HAZARDS: At higher temperature vapors can cause pressure build-up in sealed containers. Use water to cool containers exposed to fire. Self-contained respirator equipment and full protective clothing required when smoke or fumes are generated. Electrical grounding not recommended.		

5. REACTIVITY DATA:

HMIS Reactivity Rating:		1 - (Slight Hazard)
STABILITY: This product requires another component to react at room temperature. Mix and use product in accordance with directions for safety. Excessive heat and fume generation can occur if improperly handled. Not sensitive to mechanical impact.		
INCOMPATIBILITY: Strong acids, strong bases. Amines and mercaptans may initiate possible hazardous polymerization.		
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and dioxide, aldehydes, various compounds from incomplete combustion.		
HAZARDOUS POLYMERIZATION: May occur is product is not handled per instructions.		

6. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS AND LEAKS: Ventilate area, eliminate all sources of ignition. Wear appropriate protective gear. Contain leak/spill. Salvage. Clean up residue with absorbent material.
WASTE DISPOSAL METHOD: Handle disposal of waste material in manner which complies with local, state, province, and federal regulations. Landfill if solidified or incinerate at agency approved waste-disposal facility.

7. HEALTH HAZARD DATA:

HMIS Health Rating:		2 - (Moderate Hazard)
Primary Route Of Entry:		Dermal
Effects of Overexposure:		
Skin Contact:	Prolonged or repeated exposure may cause skin irritation and redness. Skin sensitization or allergic reaction may occur in some individuals.	
Eyes:	Contact may cause irritation, redness, tearing and blurred vision.	
Inhalation:	Vapors may cause severe irritation to nose, and mucous membranes.	
Ingestion:	Intake can cause gastro-intestinal irritation, nausea, vomiting and diarrhea.	
	LD (50) CAS 25068-38-6	11.4 g/kg (rat)
	LD (50) CAS 2210-79-9	11.4 g/kg (rat)
Chronic:	None known.	

8: FIRST AID:

Inhalation:	Remove victim from exposure. If difficulty with breathing; administer oxygen and seek immediate medical assistance.
Eyes:	Flush with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
Skin:	Wash with soap and water; get medical attention if irritation persists.
Ingestion:	Do not induce vomiting, give at least two glasses of water; get immediate medical attention. If vomiting occur spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Do not give anything by mouth to an unconscious person.

9. SPECIAL PROTECTION INFORMATION:

HMIS Personal Protection Rating: C (Safety Glasses, Gloves, Apron)	
Ventilation:	Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to prevent build-up of heavy vapors.
Personal Protection:	Use eye protection. Selection of specific items such as gloves, boots and apron will depend on the operation.

10. ADDITIONAL INFORMATION:

DOT Proper Shipping Name:	Epoxy resin mixture
DOT Hazard Class or Division:	Not regulated
Identification Number:	N/A
Packing Group:	N/A
Labels Required:	N/A
California Prop. 65:	N/A
WHMIS Classification:	Class D, Div. II, Sub. B
Storage Conditions:	Keep containers tightly sealed. Store in dry and cool areas. Avoid freezing conditions.
Shelf life:	Indefinite.
Special Instructions:	Storage recommendations: Store at room temperature. Do not allow to freeze.

The information given herein is given in good faith. No warranty, expressed or implied, is made regarding the accuracy of these data or the results obtained from the use thereof. All materials may present unknown health hazards and must be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Consult ChemCo Systems Inc. for further information.

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