

MATERIAL SAFETY DATA SHEET

MSDS Nr.: 6-001 Issue Date: 1/24/13

1. Product and Company Id	-	a Engly Pagin Propres	
Product Name: Recommended Use of Product:	HM1960 EPC - Glass Fabric Epoxy Resin Prepreg Base material fire retardent prepreg, insulation, vinyl floor board, common and specialty		
Recommended Use of Product:			
Manufacturari	industry composites		
Manufacturer:	Hankuk Fiber Co., LTD		
	181-1 Youngji-Ri, Bubuk-Myeon, Miryang-Si, Kyungnam, Korea 627-850 Tel: 82-55-359-2434		
	Fax: 82-55-359-2439		
Emergency Phone Number:	82-55-359-2434		
	82-33-339-2434		
2. Hazards Identification			
Form:	Solid		
OSHA/HCS Status:	This material is considered hazardous by the OSHA Hazard Communications Standard		
	(29 CFR 1910 1200).		
Emergency Overview:	When processed, powdery dust may occur leading to the following hazards:		
	Inhalation:	May cause central nervous system depression (CNS) and	
		irritation to the respiratory system.	
	Ingestion:	May cause central nervous system depression (CNS).	
	Skin:	May cause sensitization by skin contact.	
	Eyes:	May cause irritation to eyes.	
Potential Chronic Health Effects:	Chronic Effects:	Contains material that can cause target organ damage.	
	Carcinogenicity:	No known significant effects or critical hazards.	
	Mutagenicity:	No known significant effects or critical hazards.	
	Teratogenicity:	No known significant effects or critical hazards.	
	Developmental Effects:	No known significant effects or critical hazards.	
	Fertility Effects:	No known significant effects or critical hazards.	
	Target Organs:	Contains material which can cause damage to the following	
		organs: kidneys, liver, central nervous system.	
Overexposure Signs/Symptoms:	Adverse symptoms may include:		
	Inhalation:	Respiratory tract irritation, coughing, headache, fatigue, nausea	
		or vomiting, drowsiness, dizziness, vertigo.	
	Ingestion:	Headache, nausea or vomiting, drowsiness, dizziness, vertigo.	
	Skin:	Irritation, redness.	
	Eyes:	Pain, irritation, watering, redness.	
	Medical Conditions:	Pre-existing skin disorders and disorders involving any other	
		target organs mentioned in this MSDS as being at risk may be	
		aggrevated by overexposure.	

3. Composition/Information on Ingredients

CHEMICAL NAME	Case Number	Content (%)
Glass fiber	65997-17-3	35-65
Tetrabromobisphenol A, bisphenol A, Epichlorohydrin polymer	26265-08-7	35-65

This product has been thermally processed which converts, by reaction, the individual ingredients into a product that now acts as a whole rather than as a mixture of ingredients. No available information on this specific mixture as a whole. The solvent portion has been reduced to less than 1.00% and the resinous/catalyst ingredients have been partially reacted (B-staged) changing their chemistry. The information presented is based on each components' presence at concentrations greater than 1.00%.

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4. First-Aid Measures

After Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and

lower eyelids.

After Inhalation: Move exposed person to fresh air.

After Skin Contact: No special treatment. Treat symptomatically.

5. Fire-Fighting Measures

Special Hazards:

Suitable Extinguishing Media: Use dry chemical, CO2, water spray(fog) or foam (do not use water jet).

Decomposition products may include carbon oxides.

Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing **Protective Equipment:**

apparatus and full protective clothing when appropriate; personnel should maintain a

safe distance from the fire area perimeter.

6. Accidental Release Measures

Personal Precautions: Solid substance; no risk of leakage.

Environmental Protection Measures: Not Applicable. **Measures for Cleanup:** Not Applicable.

7. Handling and Storage

Handling: Avoid contact with skin; follow safety precautions related to weight of product.

Storage: Store material in cool, dry place; 50% relative humidity.

8. Exposure Controls and Personal Protection

Appropriate Engineering Measures

When processing where dust is generated, use only in adequate ventilation. Use process and Use: enclosures, local exhaust ventilation or other controls to keep worker exposure to airborne contaminants below any recommended or statutory limits as well as explosive limits.

9. Physical & Chemical Properties

Appearance: Epoxy coated glass fiber

Odor: No data. **Odor Threshold:** No data. pH: No data. Melting Point/Freezing Point: No data. Initial Boiling Point/Boiling Range: No data. Flashing Point: No data. **Evaporation Rate:** No data. Flammability (solid, gas): No data. Upper/Lower Flammability or No data.

Explosive Limits:

Vapor Pressure: No data. Solubility: No data. Vapor Density: No data. Specific Gravity: No data. Partition Coefficient (n-octanol/water): No data. **Auto-Ignition Temperature:** No data. **Decomposition Temperature:** No data. Viscosity: No data. Formula Mass: No data.

10. Stability and Reactivity

Chemical Stability and Possibility of

Stable under normal temperature and pressure conditions.

Hazardous Reactions:

Conditions to Avoid (e.g. static

Heat, sparks and open flame ignition sources.

discharge, shock or vibration, etc):

Incompatible Materials:

Possibility of erosion by acid.

Hazardous Decomposition Products:

In the event of a fire, small quantities of gas can be released.

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11. Toxilogical Information

No data available on this specific mixture

GLASS FIBERS

NIOSH RTECS No: LK3651000

Acute Effects of Overexposure: Exposure to dust may cause irritation to the skin, eyes and respiratory system.

Chronic Effects of Overexposure: Prolonged contact with the skin may cause dermatitis; tumors have been detected in

experimental animals but have not been detected in humans.

Target Organs: Respiratory organs, eyes and skin.

Carcinogenicity: AGIH A4, IARC Group 3

Toxicity Data: LD50 data not available in source utilized.

BROMINATED EPOXY RESIN

NIOSH RTECS No: Not listed.

Acute Effects of Overexposure: Repeated exposure may lead to skin sensitization.

Target Organs: Skin.

Carcinogenicity: Not listed by IARC, ACGIH, NTP, OSHA or NIOSH.

12. Ecological Information

No data available on this specific mixture

Environmental Effects: No known significant effects or critical hazards.

13. Disposal Considerations

Disposal Instructions: Dispose of material in accordance with federal, state and local regulations.

14. Transportation Information

Land Transport (DOT):Not regulated.Maritime Transport (IMDG):Not regulated.Air Transport (IATA):Not regulated.ICAO:Not regulated.RID/ADR:Not regulated.Canada TDG:Not regulated.

15. Regulatory Information

All the components of this product are listed on the following: Canadian Domestic Substances List (DSL)

Toxic Substances Control Act Inventory (TSCA)

European Inventory of Existing Chemical Substances (EINECS)

16. Other Information

Hazardous Material Information System (HMIS): Health: 2

Flammability: 1 Reactivity: 0

NOTE: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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