MATERIAL SAFETY DATA SHEET

This MSDS complies with 29 CFR 1910.1200

SECTION 1– PRODUCT IDENTIFICATION

PRODUCT Fiberglass/Phenolic Prepreg
FINISH A768, A769
DESCRIPTION Phenolic Prepreg

SECTION 2– COMPOSITION INFORMATION ON INGREDIENTS

CHEMICAL OR COMMON NAME	PERCENT BY WEIGHT		CAS#	TLV (SOURCE)	PEL (SOURCE)
Phenol	5-8	HCS Hazardous	108-95-2	5 ppm	5 ppm
Formaldehyde	0-0.1	HCS Hazardous	50-00-0		0.75 ppm)
Phenol, Polymers with Formaldehyde	80-90	HCS Hazardous	9003-35-4	N/AV	N/AV
Methanol	0.2-4.0	HCS Hazardous	67-56-1	200 ppm	200 ppm
This product is supplied on one of the following carrier:					
Fiberglass				N/E	N/E

N/AV=NOT AVAILABLE N/AP=NOT APPLICABLE N/E=NOT ESTABLISHED

OSHA Regulatory Status: N/AV

SECTION 3– HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
Avoid skin contact, sources of ignition (especially when vapors are confined). A white to yellow coated fiberglass. Vapors (2.4-3.0 percent by weight) are flammable and may cause central nervous system depression. The dust is a mechanical irritant. Toxic if ingested. Contains chemicals which are known carcinogens. Will polymerize on exposure to heat. May react violently with exposure to strong oxidizing or reducing agents.

POTENTIAL HEALTH EFFECTS:
Routes of exposure: Eyes, Skin, Ingestion and Inhalation

Target organs: Kidney, Liver and Respiratory System

Eye: Dust is mechanically irritating. May cause permanent damage if not removed quickly.

Skin: Irritating to the skin, particularly the dust. If material absorbs through the skin it may cause central nervous system depression.

Ingestion: Toxic. Less than one mouthful may be fatal if swallowed. May cause central nervous system depression if swallowed. May damage kidneys and lungs.

Inhalation: Fumes may cause central nervous system depression. May cause lung, liver and kidney damage.

Chronic Effects: Damage to target organs.

Pre-existing medical conditions aggravated by exposure: Disorders involving kidneys, liver, eyes, skin and respiratory system.

Signs of overexposure: Central nervous system depression such as dizziness, headache, nausea or unconsciousness. Skin irritation.

See also section 11) TOXICOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS:

Unknown but it is expected that the water soluble components (total <10% by weight) of this product may be toxic to fish, aquatic animals and plants.

See also section 12) TOXICOLOGICAL INFORMATION

SECTION 4 – FIRST AID MEASURES

FIRST AID PROCEDURES:

Eye: Flush eyes with water for at least 20 minutes. Seek medical attention if irritation persists.

Skin: Wash with soap and water. Wash contaminated clothing. Prevent material from entering eyes or mouth. If irritation of the skin persists, seek medical attention.

Ingestion: Seek medical attention immediately! If vomiting occurs, prevent choking. Careful gastric lavage or induction of emesis is desirable to reduce systemic absorption.

Inhalation: Remove victim to fresh air. If breathing is difficult, seek medical attention immediately. Administer oxygen if necessary.

NOTE TO PHYSICIAN:

Delayed pulmonary edema may occur. 24 hours of observation is recommended. Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash point: 56°F TCCC (lowest flashing component)
UEL: 21.2% (lowest flashing component)
LEL: 3.53% (lowest flashing component)
Auto ignition temperature: N/E
Flammability Classification: N/E
Flame propagation or burn rate for solids: N/AP
Unusual properties in a fire: None. Material is combustible.
Reducing and oxidizing agents may create a fire or make it worse.
Vapors released from this product are flammable.

EXTINGUISHING MEDIA:

CO2, foam, or dry chemical. Use water to cool nearby containers.

PROTECTION OF FIREFIGHTERS:

Evacuate as necessary to prevent exposure to the smoke and fumes of fires containing this material.
The material may polymerize with heat.
Firefighters should wear SCBA and bunker gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Evacuate the area where the exposure levels of components exceed their limits.
Sweep up or pick up material for disposal according to state and federal regulations.
Prevent fire by eliminating sources of ignition, such as open flam and electric motors.

SECTION 7 – HANDLING AND STORAGE

HANDLING:

Make sure containers are clearly labeled and closed tightly.
Wash hands thoroughly after handling material or its containers.
Eliminate sources of ignition before opening containers, open slowly, avoid sparks.

STORAGE:

Store in provided containers.
Maintain temperature below 120°F.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Local ventilation as needed to prevent exposure beyond limits established in section 2. Keep material away from heat, sparks, oxidizers, reducing agents and open flame. Use of this material that involves heating may release hazardous fumes.

PERSONAL PROTECTIVE EQUIPMENT:

Wear safety glasses or full face shield.
Wear gloves made of PVC, neoprene, or natural rubber.
Where concentrations exceed the exposure limits, use NIOSH approved vapor mask.
Where dusting occurs, use NIOSH approved dust mask.
Make sure eyewash stations, sopa and sink, and safety showers are nearby.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Chemical characteristics including but not limited to:
Appearance: A white to yellow coated fiberglass
Odor: Slight alcohol and phenol
Physical State: Solid at 72°F
pH: N/AP
Vapor pressure: N/E
Vapor density: N/E
Boiling point: N/E
Freezing/melting point: N/E
Solubility: N/E
Specific Gravity (water=1.00): N/E

SECTION 10 – STABILITY AND REACTIVITY

This material is stable below 120°F.
Avoid temperatures above 120°F.
Avoid contact with oxidizing and reducing agents.
Decomposition products include aldehydes, phenol, and products of incomplete combustions.
Material may polymerize above 150°F.

SECTION 11 – TOXICOLOGICAL INFORMATION

No toxicological information is available on this product as it is produced. However, there is a large amount of data available on some of the components of this product.

Formaldehyde has been shown to cause cancer in laboratory animals and is a suspected human carcinogen.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXOLOGICAL INFORMATION

No information is available for this product as it is produced. However, this material is expected to be toxic to plants, animals and beneficial microorganisms.

Data is available on some of the components of this product.

CHEMICAL FATE INFORMATION

No information is available for this product as it is produced. However, the water soluble portion of the resin is not expected to persist in the environment but the insoluble portion may.

Data is available on some of the components of this product.

SECTION 13 – DISPOSAL CONSIDERATIONS

This material as it is manufactured is not hazardous waste if disposed of. Empty containers may contain dust. State regulations may differ from federal regulations. Processing this material may change the material's status. It is the responsibility of the end user to determine the waste classification, transportation and disposal method.

SECTION 14 – TRANSPORTATION INFORMATION

Proper Shipping Name: N/AP
Hazard Class: N/AP
Packing Group: N/AP
Identification Number (UN#): N/AP

This information may change based on the packaging and quantity shipped.

SECTION 15 – REGULATORY INFORMATION

These components are regulated on the following lists:

Phenol (CAS 108-95-2)

CAA Hazardous Air Pollutants
CAA SOMCMI Chemicals
Carcinogen (OSHA, IARC, NTP)
CERCLA Hazardous Substances
Clean Water Act Hazardous Substances
Clean Water Act Priority Pollutants
NFPA Hazardous Materials
NIOSH Health / Safety References

Permissible Exposure Limits
RCRA Hazardous Wastes
RCRA Ground Water List
SARA Extremely Hazardous Substances
SARA Toxic Release Chemicals
TSCA Chemical Substance Inventory
California Hazardous Substances List
Delaware Air Quality Management List
Idaho Air Pollutant List
Illinois Toxic Air Contaminants List
Maine Hazardous Air Pollutant List
Massachusetts Hazardous Substances List
Minnesota Hazardous Substances List
North Carolina Toxic Air Pollutant List
New Jersey RTK Hazardous Substances List
New York List of Hazardous Substances
Pennsylvania Hazardous Substances List
WA Permissible Exposure Limits for Air Contaminants
Wisconsin Hazardous Air Contaminants

Formaldehyde (CAS 50-00-0)
CAA Accidental Release Prevention Substances
CAA Hazardous Air Pollutants
CAA SOMCMI Chemicals
Carcinogen (OSHA, IARC, NTP)
CERCLA Hazardous Substances
Clean Water Act Hazardous Substances
NFPA Hazardous Materials
NIOSH Health / Safety References
Permissible Exposure Limits
PSM Highly Hazardous Chemicals
RCRA Hazardous Wastes
SARA Extremely Hazardous Substances
SARA Toxic Release Chemicals
TSCA Chemical Substance Inventory
California Hazardous Substances List
CA Proposition 65 Chemicals
Delaware Air Quality Management List
Idaho Air Pollutant List
Illinois Toxic Air Contaminants List
Maine Hazardous Air Pollutant List

Massachusetts Hazardous Substances List
Minnesota Hazardous Substances List
New Jersey RTK Hazardous Substances List
New Jersey TCPA Extremely Hazardous Substances List
New York List of Hazardous Substances
North Carolina Toxic Air Pollutant List
Pennsylvania Hazardous Substances List
WA Permissible Exposure Limits for Air Contaminants
Wisconsin Hazardous Air Contaminants
West Virginia Toxic Air Pollutant List

Phenol, polymers with formaldehyde (CAS 9003-35-4)
TSCA Chemical Substance Inventory

Methanol (CAS 67-56-1)
CAA Hazardous Air Pollutants
CAA SOMCMI Chemicals
CERCLA Hazardous Substances
NFPA Hazardous Materials
NIOSH Health / Safety References
Permissible Exposure Limits
RCRA Hazardous Wastes
SARA Toxic Release Chemicals
TSCA Chemical Substance Inventory
California Hazardous Substances List
Delaware Air Quality Management List
Idaho Air Pollutant List
Illinois Toxic Air Contaminants List
Maine Hazardous Air Pollutant List
Massachusetts Hazardous Substances List
Minnesota Hazardous Substances List
New Jersey RTK Hazardous Substances List
New York List of Hazardous Substances
Pennsylvania Hazardous Substances List
WA Permissible Exposure Limits for Air Contaminants

Fiberglass (CAS 65997-17-3)
TSCA Chemical Substance Inventory

SECTION 16 – OTHER INFORMATION

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THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, IS MADE WITH RESPECT TO THE INFORMATION ABOVE.

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