



1. PRODUCT IDENTIFICATION

FIBERGLASS REINFORCED PHENOLIC ADHESIVE LAMINATE

- Gillpatch™ 1367P System

2. COMPOSITION - INFORMATION ON INGREDIENTS

Chemical ingredients (% by wt.)

Table with 3 columns: COMPONENT, CAS#, and %. Rows include Fiberglass, Acrylate polymer, Co-cured phenolic resin/synthetic elastomer, Polyvinyl/fluoride polymer containing less than 0.002% nickel antimony titanium yellow pigment as nickel compounds, and Flame retardant.

OSHA REGULATORY STATUS

As shipped this material is an inert fiberglass/plastic laminate in which ingredients have been cured using a thermoset process. While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product.

3. HAZARDS IDENTIFICATION

Flat sheets, brown in color, with slight characteristic odor. Can decompose in a fire emitting toxic fumes and gases of CO, CO2, methane, formaldehyde, phenol, toxic phosphorus oxides, hydrogen fluoride, hydrogen cyanide, oxides of nitrogen, and small amounts of aromatic and aliphatic hydrocarbons.

POTENTIAL HEALTH EFFECTS

- EYE: Dusts may cause irritation or scratch the surface of the eye.
SKIN: Skin contact with dust and fibers of this product may produce itching and transient mechanical irritation.
INGESTION: Ingestion is not expected to be a route of exposure. If ingestion occurs, treat symptomatically.
INHALATION: Inhalation of dust may result in itching and upper respiratory tract irritation.

CHRONIC EFFECTS/ CARCINOGENICITY

This product contains synthetic vitreous fibers (fiberglass). While OSHA does not regulate fibrous glass as a carcinogen, the scientific community has studied fiberglass for many years as a potential carcinogen.

Continuous filament glass fibers are listed by IARC (Group 3 - "Not classifiable as to carcinogenicity to humans") and ACGIH as A-4 ("Not classifiable as a human carcinogen; Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals").

Release of this material during processing as respirable and non-respirable fibers should be controlled by adequate local exhaust ventilation, good work practices, and use of personal protective equipment as needed.



This product contains a small amount (0.002%) of the following chemical: Nickel Antimony Titanium yellow pigment This material is regulated as a nickel compound and is listed as a carcinogen by IARC (Group 1 - "Carcinogenic to Humans: sufficient evidence of carcinogenicity"), NTP (Group 2A - "Limited evidence of carcinogenicity from studies in humans which indicates that causal relationship is credible" and (Group 2B - "Sufficient evidence of carcinogenicity from studies in experimental animals.")). ACGIH lists nickel compounds as (Group A1 - "Confirmed Human Carcinogen). Germany's Deutsche Forschungsgemeinschaft (DFG) lists nickel compounds as (A1 - "Compounds capable of inducing malignant tumors as shown by experience with humans"). Compounds in DFG's Category A have no concentration value listed in Section IIa (the main MAK table) since no values have been established for a safe concentration range.

Release of this material as soluble/insoluble nickel compound may occur in trace quantities during processing of the product, but is not expected to present a significant hazard.

This product may contain residues of unreacted organic phosphates which have been demonstrated to be cholinesterase inhibitors and mutagens in experimental animals. Possible release of this material which may occur in trace quantities during processing of the product is not expected to present a significant hazard.

MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE

Persons with a history of chronic lung disease may be at increased risk from exposure to excessive levels of nuisance dusts. Persons with medical conditions generally aggravated by mechanical irritants in the air or on the skin may be at increased risk for a worsening of the underlying condition if exposed.

POTENTIAL ENVIRONMENTAL EFFECTS

This product as shipped is inert and should pose no significant hazard to the environment.

4. FIRST AID MEASURES

EYE: Flush with water for 15 minutes. Seek medical attention if irritation persists.
SKIN: Wash exposed area with soap and cool to tepid water. Do not rub or scratch irritated area. If fiberglass becomes imbedded, seek medical attention.
INGESTION: Avoid ingestion. Treat symptomatically.
INHALATION: Move individual to fresh air. Seek medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: Not known

FLAMMABLE LIMITS LFL: Not applicable

UFL: Not applicable

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

FIRE AND EXPLOSION HAZARDS: Can decompose in a fire emitting toxic fumes and gases of CO, CO₂, methane, formaldehyde, phenol, toxic phosphorus oxides, hydrogen fluoride, hydrogen cyanide, oxides of nitrogen, and small amounts of aromatic and aliphatic hydrocarbons.

FIRE FIGHTING EQUIPMENT: Wear full bunker gear including a positive pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

HEPA vacuum or wet wipe dusts and place in a disposal container. Avoid excess dust generation. Dispose of material properly.

7. HANDLING AND STORAGE

Avoid contact with eyes. Avoid inhalation of product dust. Minimize dust generation and accumulation. Store indoors in a cool, dry area to protect material and prevent premature polymerization. Keep away from heat, sparks and open flame. For maximum storage life, store at temperatures below 50°F (10°C).



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Provide local exhaust ventilation to maintain airborne levels below the exposure limits. Minimize dust generation and accumulation.
RESPIRATORY PROTECTION:	Where dust is generated use a NIOSH approved half or full face air purifying respirator with dust/mist filter cartridges. Use in accordance with OSHA regulations under 29 CFR 1910.134
SKIN PROTECTION:	Wear gloves made of impermeable materials. Wear loose fitting, long sleeved clothing and long pants.
EYE PROTECTION:	If dust is generated, wear chemical goggles or full face respirator.

GENERAL HYGIENE CONSIDERATIONS:

The health hazards associated with this material when used as recommended are mechanical skin, eye and respiratory irritation associated with the generation of fiberglass composite dusts during machining or cutting. The following general hygiene considerations are recognized as common, good industrial hygiene practices:

- Wash hands after use and before eating
- Shower at the end of the workday.
- Wash work clothes separately and wipe out washer at the end of the cycle.
- Avoid breathing dust
- Wear safety goggles

EXPOSURE GUIDELINES

Cure of this product may release phenol and formaldehyde vapors. Hazardous components may also be released during cutting, milling, drilling, routing, or otherwise fabricating the cured product.

COMPONENT	CAS#	OSHA PEL TWA	ACGIH TLV
Fiberglass	65997-17-3	Total dust 15 mg/m ³ Respirable 5 mg/m ³	Total dust 5 mg/ mg/m ³ Respirable 1 fiber/cc
Nickel antimony titanium yellow pigment as nickel compounds, soluble and insoluble		Insoluble. 1 mg/m ³ Soluble. 1 mg/m ³	Insoluble 0.2mg/m ³ Soluble. 0.1mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Flat sheets, brown in color.
ODOR:	Slight sweet odor.
BOILING POINT:	Not applicable
VAPOR PRESSURE	Not applicable
SOLUBILITY IN WATER:	Unknown
SPECIFIC GRAVITY:	2.1
pH:	Not applicable
UEL:	Not applicable
LEL:	Not applicable

10. STABILITY AND REACTIVITY

STABILITY:	Stable under normal handling conditions.
MATERIALS TO AVOID:	Strong oxidizing agents, strong acids and bases, especially oxalic and hydrofluoric acid and acyl halides.
HAZARDOUS DECOMPOSITION PRODUCTS:	CO, CO ₂ , formaldehyde, phenol, toxic phosphorus compounds hydrogen fluoride, hydrogen cyanide, oxides of nitrogen, and small amounts of aromatic and aliphatic hydrocarbons.
HAZARDOUS POLYMERIZATION:	Will not occur.

11. TOXICOLOGICAL INFORMATION

For detailed toxicological information on the components of this material, contact the address listed in Section 1 of this MSDS



12. ECOLOGICAL INFORMATION

None found

13. DISPOSABLE CONSIDERATIONS

If material as supplied becomes a waste, incinerate or landfill in accordance with local, state, and federal laws and regulations. Incinerate only if incinerator is operated at high temperature and is capable of scrubbing out acidic combustion products. Contact your local or state environmental agency for specific rules.

14. TRANSPORT INFORMATION

DOT: Not Regulated
IMO: Not Regulated
IATA: Not Regulated

15. REGULATORY INFORMATION

INVENTORY STATUS – fiberglass

<u>Inventory</u>	<u>Status</u>
United States (TSCA)	Listed
European Union (EINECS)	Listed
Canada (DSL)	Listed

CERCLA/SUPERFUND, 40 CFR 117.302: This material contains Reportable Quantity (RQ) Substances: nickel compounds.

SARA HAZARD CATEGORY: This material has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered to meet the following categories:

None:

SARA 313 INFORMATION: This material contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

These products do not contain any components exceeding the de minimis amount subject to reporting under Section 313 of the Emergency Planning and Community Right-to-know act of 1986 and of 40 CFR 372

CALIFORNIA PROPOSITION 65: The following statement is made in compliance with the California Safe Drinking and Toxic Enforcement Act of 1986:

Substances known to the State of California to cause cancer, birth defects or other reproductive harm - Nickel Compounds, Epichlorohydrin, Organo-Phosphate Compounds.

16. OTHER INFORMATION

MSDS STATUS: Revised all sections re: ANSI Z400.1-1998 format
MSDS PREPARED BY: **M.C. Gill Corporation** 7/14/03
Revised October 2003

M.C. Gill Corporation provides this information as a customer service. While the information contained in this MSDS is believed to be correct, no guarantee or warranty of any kind is made with respect to this information.

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