



1. PRODUCT IDENTIFICATION

GILLPATCH III (FIBERGLASS REINFORCED CARGOLINER PATCH)

- Gillpatch III™ 6306 System

2. COMPOSITION - INFORMATION ON INGREDIENTS

Chemical ingredients (% by wt.)

Table with 3 columns: COMPONENT, CAS, and %. Rows include Intumescent adhesive coating, Fiberglass, woven cloth, Adhesive, pressure sensitive, 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 composite sandwich panel composed of fiberglass fabric-reinforced epoxy facing skins bonded to a Nomex aramid honeycomb core in which thermosetting polymer ingredients have been cured under the influence of heat and pressure.

3. HAZARDS IDENTIFICATION

Flat sheets, brown/white in color, with slight characteristic odor. Can decompose in a fire emitting toxic fumes and gases of CO, CO2, toxic phosphorus oxides, hydrogen fluoride, hydrogen cyanide and oxides of nitrogen.

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, fiberglass has been studied by the scientific community for many years as a potential carcinogen.

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. Nickel compounds have been studied extensively in relation to cancers found in nickel smelter workers. 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 cutting and grinding of the product, is not expected to present a significant hazard. Note that the instructions for the correct use of this product prohibit sawing, grinding, milling, routing, or drilling of this material; only shearing or cutting by a knife blade may be used, essentially eliminating dust as a source of exposure.

#### **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 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, CO<sub>2</sub>, toxic phosphorus oxides, hydrogen fluoride, hydrogen cyanide and oxides of nitrogen.

**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.

#### **7. HANDLING AND STORAGE**

Avoid contact with eyes. Avoid breathing dust. Minimize dust generation and accumulation. Store indoors in dry area to protect material.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>ENGINEERING CONTROLS:</b>	Provide local exhaust ventilation to maintain airborne levels below the exposure limits. Minimize dust generation and accumulation.
<b>RESPIRATORY PROTECTION:</b>	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
<b>SKIN PROTECTION:</b>	Wear gloves impermeable to glass fibers. Wear loose fitting, long sleeved clothing and long pants.
<b>EYE PROTECTION:</b>	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

There are no hazardous components in this material as received, however, cutting, milling, drilling, routing, or otherwise fabricating this material may produce the following:

COMPONENT	CAS#	OSHA PEL TWA	ACGIH TLV
fiberglass	65997-17-3	Total dust 15 mg/m3 Respirable 5 mg/m3	Total dust 5 mg/ mg/m3 Respirable 1 fiber/cc
nickel antimony titanium yellow pigment as nickel compounds, soluble and insoluble		insoluble 1 mg/m3 soluble. 1 mg/m3	Insoluble 0.2mg/m3 soluble 0.1mg/m3

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Flat sheets, brown in color on one side, white in color on the other side.
<b>ODOR:</b>	Slight characteristic
<b>BOILING POINT:</b>	Not Applicable
<b>VAPOR PRESSURE</b>	Not applicable
<b>SOLUBILITY IN WATER:</b>	unknown
<b>SPECIFIC GRAVITY:</b>	2.1
<b>pH:</b>	Not applicable
<b>UEL:</b>	Not applicable
<b>LEL:</b>	Not applicable

## 10. STABILITY AND REACTIVITY

<b>STABILITY:</b>	Stable
<b>MATERIALS TO AVOID:</b>	Strong oxidizing agents, strong acids and bases, especially oxalic and hydrofluoric acid, halogens, and acyl halides.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	CO, CO2, toxic phosphorus compounds, hydrogen fluoride, hydrogen cyanide and oxides of nitrogen.
<b>HAZARDOUS POLYMERIZATION:</b>	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 capable of scrubbing out hydrogen fluoride and other 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:

**NONE**

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, Organo-Phosphate Compounds

## 16. OTHER INFORMATION

**MSDS STATUS:** Revised all sections re: ANSI Z400.1-1998 format  
**MSDS PREPARED BY:** ATC Associates Inc., 9/3/99  
**MSDS PREPARED FOR:** M.C. Gill Corporation  
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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