



THE GILL CORPORATION

Sandwich Panels Composed of Fiberglass Fabric-Reinforced Phenolic Facing Skins Bonded to a Nomex® Aramid Honeycomb Core

Safety Data Sheet

according to Federal Register /

Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 09/15/2015

Supersedes: 10/14/2003

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Sandwich Panels Composed of Fiberglass Fabric-Reinforced Phenolic Facing Skins Bonded to a Nomex® Aramid Honeycomb Core
Product code : 110
Other means of identification : Gillfab® 4022 Panel

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Versatile Panels typically used for aircraft interior. Qualified to McDonnell Douglas specifications 9100059, S3933941, S3933942.

1.3. Details of the supplier of the safety data sheet

The Gill Corporation
4056 Easy Street
El Monte, CA 91731
(626) 443-4022
www.thegillcorp.com

1.4. Emergency telephone number

Emergency number : THE GILL CORPORATION: 1-626-443-4022 CHEMTREC: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Sens. 1 H317
Carc. 1B H350

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07



GHS08

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H317 - May cause an allergic skin reaction
H350 - May cause cancer (Inhalation)

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P261 - Avoid breathing dust
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear face protection, protective gloves
P302 + P352 - If on skin: Wash with plenty of pH neutral soap and water
P308 + P313 - If exposed or concerned: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P405 - Store locked up
P501 - Dispose of contents/container to comply with local/regional/national/international regulations

2.3. Other hazards

Other hazards not contributing to the classification

: As packaged, this material does not present significant health hazards. The hazards below apply to the product if aerosols or dusts are generated from cutting, grinding, or pulverizing. Other constituents in this product are considered nuisance particles or dust. Exposure to dusts or powders may cause mechanical irritation of the respiratory system, eyes, and skin. This product may contain trace amounts of arsenic, lead sulfochromate and chromates as CrO₃.

Sandwich Panels Composed of Fiberglass Fabric-Reinforced Phenolic Facing Skins Bonded to a Nomex® Aramid Honeycomb Core

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Cured Phenolic Resin	Proprietary	30 - 41	Skin Sens. 1, H317
Fiberglass	(CAS No) 65997-17-3	20 - 50	Carc. 1B, H350
Antimony Trioxide	(CAS No) 1309-64-4	<= 3.3	Carc. 2, H351
Chlorinated Phosphate (Only in panels made to specifications DAC DWG 9D0059 and B/E Aero.)	(CAS No) 13674-87-8	0.1 - 0.2	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 2, H401

Full text of H-phrases: see section 16

SECTION 4: First aid measures

- First-aid measures after inhalation : If exposed to dusts: Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.
- First-aid measures after skin contact : Wash exposed area with soap and water. DO NOT rub or scratch irritated area. If fiberglass becomes imbedded, seek medical attention
- First-aid measures after eye contact : Immediately flush with large amounts of water, holding eyelids open, for at least 20 minutes. Repeat if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance if irritation persists.
- First-aid measures after ingestion : Not an anticipated route of entry. Avoid ingestion of dusts. Treat symptomatically.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : As packaged, this material does not present significant health hazards. The hazards below apply to the product if aerosols or dusts are generated from cutting, grinding, or pulverizing.
- Symptoms/injuries after inhalation : Inhalation of dust may result in itching and upper respiratory tract irritation.
- Symptoms/injuries after skin contact : Dusts and particulate matter may cause irritation of the skin. Exposure to dusts may cause an allergic reaction.
- Symptoms/injuries after eye contact : Dusts and particulate matter may cause irritation of the eyes. Mechanical irritation, potentially severe, can result from eye contact with this material.
- Symptoms/injuries after ingestion : Not an anticipated route of entry. May cause toxic effects if inhaled or ingested/swallowed.
- Chronic symptoms : Persons with a history of chronic lung diseases may be at increased risk from exposure to excessive levels of nuisance dust. 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.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Any. Use media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable. Can decompose in a fire emitting toxic fumes and gases of carbon dioxide, carbon monoxide, methane, formaldehyde, phenol, hydrogen cyanide, antimony oxides, hydrogen bromide, oxides of nitrogen, phosphorus oxides, hydrogen chloride, small amounts of aromatic and aliphatic hydrocarbons; other toxic and irritating gases can be produced depending on condition of combustion.
- Reactivity : Not reactive under normal use and conditions.

5.3. Advice for firefighters

- Protection during firefighting : Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

Sandwich Panels Composed of Fiberglass Fabric-Reinforced Phenolic Facing Skins Bonded to a Nomex® Aramid Honeycomb Core

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear positive pressure self-contained breathing apparatus (SCBA). Wear protective clothing, a properly fitted, air-purifying or air-fed respirator if a risk assessment indicates this is necessary, chemical-resistant gloves, safety glasses.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Any wastes generated during cleanup operations should be evaluated with respect to hazardous and solid waste regulations and disposed of in a properly permitted facility in accordance with all local, state, and federal regulations.

6.3. Methods and material for containment and cleaning up

For containment : Do not walk through any dust resulting from damage to product.

Methods for cleaning up : Recover mechanically the product. Minimize generation of dust. HEPA Vacuum or wet methods and place in a disposal container.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Use methods to minimize dust. Do not breathe dust. DO NOT use compressed air or dry sweeping to remove dust from work area. Use a vacuum with adequate filtration system to remove dusts. If an appropriate vacuum is unavailable, only wet-clean-up methods should be used (i.e. misting). Moisture should be added as necessary to reduce exposure to airborne dust.

Hygiene measures : Practice good housekeeping. Wash thoroughly after handling. Change contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store indoors in dry area to protect material.

Incompatible products : Strong oxidizing agents, strong acids and bases, especially oxalic and hydrofluoric acid, halogens, and acyl halides.

7.3. Specific end use(s)

Versatile Panels typically used for aircraft interior. Qualified to McDonnell Douglas specifications 9100059, S3933941, S3933942.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sandwich Panels Composed of Fiberglass Fabric-Reinforced Phenolic Facing Skins Bonded to A Nomex Aramid Honeycomb Core		
ACGIH	Not applicable	
OSHA	Not applicable	
Fiberglass (65997-17-3)		
ACGIH	Not applicable	
OSHA	OSHA PEL (TWA) (mg/m³)	3 fibers/cm³ (fibers with diameter ≤ 3.5 µm & length ≥ 10 µm); 5 mg/m3 TWA (total fibrous glass)
Chlorinated Phosphate (13674-87-8)		
ACGIH	Not applicable	
OSHA	Not applicable	
Antimony Trioxide (1309-64-4)		
ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³
OSHA	OSHA PEL (TWA) (mg/m³)	0.5 mg/m³
Particulates Not Otherwise Regulated (Total Dust)		
ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ Respirable; 10 mg/m³ Total dust

Sandwich Panels Composed of Fiberglass Fabric-Reinforced Phenolic Facing Skins Bonded to a Nomex® Aramid Honeycomb Core

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Particulates Not Otherwise Regulated (Total Dust)		
OSHA	OSHA PEL (TWA) (mg/m ³)	5mg/m ³ Respirable; 15 mg/m ³ Total dust

8.2. Exposure controls

Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Enclosed processes used in combination with local exhaust ventilation as necessary to control air contaminants at or below acceptable exposure guidelines. Collection systems must be designed and maintained to prevent the accumulation and recirculation of dust into the workplace.
Hand protection	: None normally needed. Impervious gloves may be used to prevent mechanical irritation.
Eye protection	: Where eye contact is possible with particulate matter, safety glasses with side shields are recommended.
Skin and body protection	: Depending on the risk, wear a tight, long apron and boots or suitable chemical protection clothing. Nitrile rubber or similar protection is recommended for waste clear-up and manufacturing operations.
Respiratory protection	: Follow NIOSH recommendations for respirator use if welding, cutting, or grinding.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Flat Sheet.
Color	: Brown
Odor	: Slight
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: Not Applicable
Flash point	: Not Applicable
Auto-ignition temperature	: Not Applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: Density varies with panel type from 0.1 – 0.6 g/cc
Solubility	: Unknown.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: Not Applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: Not Applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive under normal use and conditions.

10.2. Chemical stability

Stable under normal conditions.

Sandwich Panels Composed of Fiberglass Fabric-Reinforced Phenolic Facing Skins Bonded to a Nomex® Aramid Honeycomb Core

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Avoid the generation of dusts.

10.5. Incompatible materials

Strong oxidizing agents, strong acids and bases, especially oxalic and hydrofluoric acid and acyl halides.

10.6. Hazardous decomposition products

Can decompose in a fire emitting toxic fumes and gases of carbon dioxide, carbon monoxide, methane, formaldehyde, phenol, hydrogen cyanide, antimony oxides, hydrogen bromide, oxides of nitrogen, phosphorus oxides, hydrogen chloride, small amounts of aromatic and aliphatic hydrocarbons; other toxic and irritating gases can be produced depending on condition of combustion.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Chlorinated Phosphate (13674-87-8)	
LD50 oral rat	1850 mg/kg Bromatologia i Chemia Toksykologiczna. Vol. 9, Pg. 141, 1976.
LD50 dermal rabbit	> 23700 mg/kg United States Environmental Protection Agency, Office of Pesticides and Toxic Substances. Vol. 8EHQ-1280-0401S.
ATE US (oral)	1850.000 mg/kg body weight

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer (Inhalation).

Fiberglass (65997-17-3)	
IARC group	3 - Not classifiable
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

Antimony Trioxide (1309-64-4)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified
Symptoms/injuries : As packaged, this material does not present significant health hazards. The hazards below apply to the product if aerosols or dusts are generated from cutting, grinding, or pulverizing.
Symptoms/injuries after inhalation : Inhalation of dust may result in itching and upper respiratory tract irritation.
Symptoms/injuries after skin contact : Dusts and particulate matter may cause irritation of the skin. Exposure to dusts may cause an allergic reaction.
Symptoms/injuries after eye contact : Dusts and particulate matter may cause irritation of the eyes. Mechanical irritation, potentially severe, can result from eye contact with this material.
Symptoms/injuries after ingestion : Not an anticipated route of entry. May cause toxic effects if inhaled or ingested/swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : This product has no known eco-toxicological effects.

Sandwich Panels Composed of Fiberglass Fabric-Reinforced Phenolic Facing Skins Bonded to a Nomex® Aramid Honeycomb Core

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Chlorinated Phosphate (13674-87-8)

LC50 fish

4.35 Sasaki, K., M. Takeda, and M. Uchiyama 1981. Toxicity, Absorption and Elimination of Phosphoric Acid Triesters by Killifish and Goldfish. Bull.Environ.Contam.Toxicol. 27:775-782.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Recover or recycle if possible. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with DOT

Not regulated for transport

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory except for:

Cured Phenolic Resin(s)	CAS No Proprietary	C>=30.00% ; C<=41.00%
Cured Epoxy Adhesive	CAS No Proprietary	C>=9.00% ; C<=15.00%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de Minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Antimony Trioxide (1309-64-4)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists) :

1000 lb

15.2. International regulations

CANADA

No additional information available

Sandwich Panels Composed of Fiberglass Fabric-Reinforced Phenolic Facing Skins Bonded to a Nomex® Aramid Honeycomb Core

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

Antimony Trioxide (1309-64-4)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Fiberglass (65997-17-3)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

Chlorinated Phosphate (13674-87-8)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

Antimony Trioxide (1309-64-4)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

Antimony Trioxide (1309-64-4)

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Maine - Air Pollutants - Hazardous Air Pollutants
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Revision date : 09/15/2015
Data sources : ChemADVISOR, Inc. [<https://www.chemadvisor.com>]. ChemIDplus [<http://chem.sis.nlm.nih.gov/chemidplus/rn/116094-23-6>]. GESTIS DNEL Database [[http://dnel-en.itrust.de/nxt/gateway.dll/dnel_en/000000.xml?f=templates\\$fn=default.htm\\$vid=dneleng:ddbeng\\$3.0/](http://dnel-en.itrust.de/nxt/gateway.dll/dnel_en/000000.xml?f=templates$fn=default.htm$vid=dneleng:ddbeng$3.0/)].

Sandwich Panels Composed of Fiberglass Fabric-Reinforced Phenolic Facing Skins Bonded to a Nomex® Aramid Honeycomb Core

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Skin Sens. 1	Skin sensitization Category 1
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H350	May cause cancer
H351	Suspected of causing cancer
H401	Toxic to aquatic life

NFPA health hazard

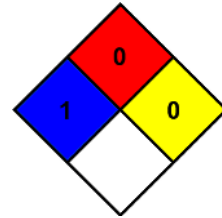
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : * - Chronic Hazard - Chronic (long-term) health effects may result from repeated overexposure

Flammability : 0 - Minimal Hazard

Physical : 0 - Minimal Hazard

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product