

Safety Data Sheet

according to Federal Register /

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

Date of issue: 08/31/2015 Revision date: 06/27/2023 Supersedes: 01/31/2012

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

**Product identifier** 

Product form : Mixture

Sandwich Panels Composed of Carbon Fiber Reinforced Epoxy Facing Skins Bonded to a Product name

Nomex® Aramid honeycomb core

Other means of identification : Gillfloor® 4709

> Gillfab® 4009 Gillfab® 5110 Gillfab® 4710

#### Relevant identified uses of the substance or mixture and uses advised against

: Light weight, high strength panels designed for use as flooring in passenger compartments of Use of the substance/mixture

commercial aircraft where weight, durability and strength are a major consideration.

#### Details of the supplier of the safety data sheet 1.3.

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

#### **Emergency telephone number**

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

## **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

#### Classification (GHS-US)

Comb. Dust H232 Eye Dam. 1 H318 Skin Sens. 1 H317 Carc. 1B H350 H361 Repr. 2

Full text of H-phrases: see section 16

## Label elements

## **GHS-US** labeling

Hazard pictograms (GHS-US)





GHS05 GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H232 - May form combustible dust concentrations in air

H317 - May cause an allergic skin reaction

H318 - Causes serious eve damage

H350 - May cause cancer (Dermal, Inhalation, oral) H361 - Suspected of damaging fertility or the unborn child

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, fume, spray

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 water, foam, carbon dioxide (CO2), dry

extinguishing powder

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P308 + P313 - If exposed or concerned: Get medical advice/attention

P310 - Immediately call a doctor

P321 - Specific treatment (See Section four (4) of this document on this label) P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

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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 smelting. 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 contains trace amounts of Antimony compounds, Organic -chrome complex and Inorganic Arsenic.

### 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)
Carbon	(CAS No) 7440-44-0	22 - 40	Comb. Dust, H232
Cured Phenolic Resin(s)	(CAS No) Proprietary	10 - 33	Not classified
Nomex Paper	(CAS No) 25765-47-3	10 - 20	Not classified
Co-cured epoxy resin/synthetic elastomer	(CAS No) Proprietary	12 - 20	Not classified
Cured Epoxy Adhesive	(CAS No) Proprietary	8 - 18	Comb. Dust, H232
Fiberglass	(CAS No) 65997-17-3	0 - 10	Carc. 1B, H350
Fire retardant ( containing phenol)	(CAS No) Proprietary	4 - 8.5	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361 STOT SE 3, H335

Full text of H-phrases: see section 16

#### **SECTION 4: First aid measures**

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4.1.	Description	OT TIPST AID	measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

First-aid measures after skin contact

: Remove contaminated clothing. Rinse immediately with large amounts of water. If frostbite or freezing occurs, immediately flush with plenty of lukewarm water to GENTLY warm the affected area. Do not use hot water. Do not rub affected area. Get immediate medical attention. Obtain medical attention if irritation persists. DO NOT rub or scratch irritated area. If fiberglass becomes imbedded, seek medical attention.

First-aid measures after eye contact

: Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get Immediate Medical Attention.

First-aid measures after ingestion

: Not expected to be an important route of entry into the body. If large amounts of particulate matter are ingested, it may cause gastrointestinal distress. Seek medical attention.

#### 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 Symptoms/injuries after skin contact Inhalation of dust may result in itching and upper respiratory tract irritation.
Dusts and particulate matter may cause irritation of the skin.

Symptoms/injuries after eye contact

: Dusts and particulate matter may cause irritation of the eyes. Mechanical irritation, potentially

Symptoms/injuries after ingestion

severe, can result from eye contact with this material.

: 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.

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#### 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 : Product will not burn.

Explosion hazard : Can decompose in a fire emitting toxic fumes and gases of

carbon dioxide, carbon monoxide, hydrogen cyanide, antimony oxides, hydrogen bromide, oxides of nitrogen; other toxic and irritating gases can be produced depending on condition of

combustion.

#### 5.3. Advice for firefighters

Firefighting instructions : Evacuate area.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Firefighters should wear a NIOSH approved full-face piece self-contained breathing apparatus

(SCBA) operated in positive pressure mode and full turnout or bunker gear.

Other information : If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all

directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Avoid breathing dust.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area. Keep unauthorized personnel away.

#### 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. Prevent entry into waterways,

sewers, basements or confined areas.

Methods for cleaning up : Pick up product and return to original packaging if reusable. If not reusable, place in

appropriate containers for disposal. 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.

#### 6.4. Reference to other sections

No additional information available

## **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 wetclean-up methods should be used (i.e. misting). Moisture should be added as necessary to

reduce exposure to airborne respirable dust.

Hygiene measures : Practice good housekeeping. Wash thoroughly after handling.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in tightly closed containers out of contact with the elements.

Incompatible products : Strong acids. Reducing agents.

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No additional information available

## **SECTION 8: Exposure controls/personal protection**

8.1. Control	parameters
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Sandwich Panels Composed of Carbon Fiber Reinforced Epoxy 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 Fiberglass)

Carbon (7440-44-0)		
ACGIH	TLV	10 mg/m³ resp dust
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ total dust 5mg/m³ resp dust

Nomex Paper (25765-47-3)	
ACGIH	Not applicable
OSHA	Not applicable

Cured Epoxy Adhesive (Proprietary) Particulates Not Otherwise Regulated		
ACGIH	Not applicable	
OSHA	Not applicable	

Cured Phenolic Resin(s) (Proprietary) Particulates Not Otherwise Regulated		
ACGIH	Not applicable	
OSHA	Not applicable	
Fire retardant ( containing phenol) (Proprietary)		
ACGIH	TLV	5 mg/m³ resp dust
OSHA	OSHA PEL (TWA) (mg/m³)	3 mg/m³ resp dust

Co-cured epoxy resin/synthe	etic elastomer (Proprietary) Particulates Not Otherwise Regulated
ACGIH	Not applicable
OSHA	Not applicable

Particulates Not Otherwise Regulated (Total Dust)			
ACGIH	ACGIH TWA (mg/m³)	3 mg/m <sup>3</sup> Respirable; 10 mg/m <sup>3</sup> Total dust	
OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ Respirable; 15 mg/m³ Total dust	

## 8.2. Exposure controls

Eye protection

Appropriate engineering controls	: G	General ventilation. Local exhaust and enclosed processes may be necessary for processes
	W	vhich generate large quantities of airborne dust.

Personal protective equipment	:	An Appropriate apron or other body covering, see above, is recommended where there is a
		possibility of regular work clothing becoming contaminated with the product. All soiled or dirty
		clothing and personal protective equipment should be thoroughly cleaned before reuse.

:	: Where eye contact is possible with particulate matter, safety glasses with side shields are
	recommended

Skin and body protection	:	Wear gloves impermeable to Fiberglass fibers. Wear loose fitting, long sleeved clothing and
		long pants.

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Respiratory protection

If dusts or particulates are generated during handling or processing and exposures may exceed the limits cited above, use, as a minimum, a NIOSH approved ½ face piece respirator with cartridges approved for particulate matter with an exposure limit of not less than 0.05 mg/M3. Respiratory protection is not normally required. If appreciable dusts and/or particulate matter are generated during handling or processing, the operation should be evaluated by a professional industrial hygienist to determine the need for respiratory protection. If respiratory protection is deemed necessary, use, as a minimum, a respirator with NIOSH approvals for particulate matter. All provisions of OSHA's Respiratory Protection Standard (29 CFR 1910.134) should be followed.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Sandwich panel.

Color : Black

Odor : Odorless to slight aromatic odor

Odor threshold No data available No data available Relative evaporation rate (butyl acetate=1) No data available Melting point No data available Freezing point : No data available Boiling point : No data available Flash point No data available Auto-ignition temperature : No data available Decomposition temperature No data available : No data available Flammability (solid, gas) Vapor pressure No data available Relative vapor density at 20 °C No data available Relative density : 0.2-0.5g/cc Solubility Log Pow : No data available No data available Log Kow

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : No data available

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Product is stable. Hazardous polymerization will not occur.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

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

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#### 10.6. Hazardous decomposition products

Decomposition and combustion products may

be toxic. Can decompose in a fire emitting toxic fumes and gases of carbon dioxide, carbon monoxide, hydrogen cyanide, antimony oxides, hydrogen bromide; oxides of nitrogen and 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

Carbon (7440-44-0)	
LD50 oral rat	> 5 mg/kg Gekkan Yakuji. Pharmaceuticals Monthly. Vol. 34, Pg. 416, 1992.

Cured Phenolic Resin(s) (Proprietary)			
LD50 oral rat	> 5000 mg/kg	National Technical Information Service. Vol. OTS0556084	
LD50 dermal rat	> 2000 mg/kg	National Technical Information Service. Vol. OTS0556084	

	Co-cured epoxy resin/synthetic elastomer (Pr	oprietary)
LD50 oral rat		≤ 2000 ml/kg
	Skin corrosion/irritation	Not classified
	Serious eye damage/irritation	Causes serious eye damage.
	Respiratory or skin sensitization	May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer (Dermal, Inhalation, oral).

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

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

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

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.

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 : 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

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.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

### 12.3. Bio accumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

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#### 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 : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Empty containers will contain product residues. Observe proper safety and handling

precautions. Do not allow empty containers to be used for any purpose except to store and

ship original product.

Ecology - waste materials : Avoid release to the environment.

### **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

Sandwich Panels Composed of Carbon Fiber Reinforced Epoxy Facing Skins Bonded to a Nomex Aramid honeycomb core
Not listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Nomex Paper	CAS No 25765-47-3	C>=10.00%; C<=20.00%
Cured Epoxy Adhesive	CAS No Proprietary	C>=8.00%; C<=18.00%
Cured Phenolic Resin(s)	CAS No Proprietary	C>=10.00%; C<=33.00%
Fire retardant ( containing phenol)	CAS No	C>=4.00%; C<=8.50%
Co-cured epoxy resin/synthetic elastomer R0429	CAS No	C>=12.00%; C<=20.00%

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.

#### 15.2. International regulations

#### **CANADA**

No additional information available

#### **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

### 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

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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	

### **SECTION 16: Other information**

Revision date : 09/17/2015

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:ddb eng\$3.0/]. http://gestis

en.itrust.de/nxt/gateway.dll/gestis\_en/000000.xml?f=templates\$fn=default.htm\$3.0; PubChem - phenoxarsine oxide https://pubchem.ncbi.nlm.nih.gov/summary/summary.cgi?cid=6017;

ToxNet - PHENARSAZINE OXIDE http://toxnet.nlm.nih.gov/cgi-

bin/sis/search2/f?./temp/~jpBTjo:2; 29 CFR 1910.1000 – OSHA Annotated Table Z-1.

### Full text of H-phrases:

Carcinogenicity Category 1B		
Combustible Dust		
Serious eye damage/eye irritation Category 1		
Reproductive toxicity Category 2		
Skin sensitization Category 1		
Specific target organ toxicity (single exposure) Category 3		
May form combustible dust concentrations in air		
May cause an allergic skin reaction		
Causes serious eye damage		
May cause respiratory irritation		
May cause cancer		
Suspected of damaging fertility or the unborn child		

NFPA health hazard : 2 - Intense or continued exposure could cause temporary

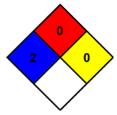
incapacitation or possible residual injury unless prompt

medical attention 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 : 3 - Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

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

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