

Safety Data Sheet

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

of issue: 08/05/2015 Revision date: 07/25/2024 Supersedes: 02/17/2009

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

1.1. Product identifier

Product form : Mixture

Product name : Gillfab® 4034, Gillfab® 4035, Gillfab® 4034A

Other means of identification : Sandwich Panels Composed of Carbon Fiber Reinforced Epoxy Facing Skins Bonded to An

Aluminum Honeycomb Core

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

Use of the substance/mixture : The panels are designed for use in aircraft cabin interior structures such as galleys, lavatories,

bulkheads, portions, storage compartments and electronic pocket doors.

1.3. Details of the supplier of the safety data sheet

The Gill Corporation 4056 Easy Street El Monte, CA 91731 www.thegillcorp.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Comb. Dust H232 Carc. 1B H350

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS05

GHS07



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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 eye 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

P405 - Store locked up

P501 - Dispose of contents/container to comply with local/regional/national/international

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regulations

2.3. Other hazards

Other hazards not contributing to the classification

: As package, 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 Lead Chromate, Antimony compounds, Inorganic Arsenic, and Chromium.

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	35 - 50	Comb. Dust, H232
Aluminum	(CAS No) 7429-90-5	24 - 40	Not classified
Co-cured epoxy resin/synthetic elastomer	(CAS No) Proprietary	10 - 16	Not classified
Fiberglass	(CAS No) 65997-17-3	5 - 10	Carc. 1B, H350
Antinomy Pentoxide	(CAS No) 1314-60-9	1 - 5	Not classified
Magnesium Oxide	(CAS No) 1309-48-4	0.6 - 1.2	Not classified

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first 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 smelting. Oxides from metallic fires are a severe health hazard. Inhalation or contact with substance or decomposition product may cause severe injury or death.

Symptoms/injuries after inhalation

: Inhalation of aluminum powder may cause lung effects. Inhalation of metallic dust may be hazardous. Dust and fumes produced during processing should be treated as a dust hazard. This product contains aluminum, which can cause pulmonary fibrosis and lung damage if inhaled as a fine powder, and is complicated by silica and iron oxide dust. Aluminum may also be implicated in Alzheimer's disease. Product will act as a nuisance dust. Inhalation of high concentrations of dust may cause coughing and mild, transitory respiratory irritation.

Symptoms/injuries after skin contact Symptoms/injuries after eye contact Symptoms/injuries after ingestion : Dusts and particulate matter may cause irritation of the skin.

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

: Not expected to be an important route of entry into the body. Ingestion of large quantities of the product may cause gastric discomfort or distress.

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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. Use a Class D fire extinguisher.

5.2. Special hazards arising from the substance or mixture

Fire hazard

: Product will not burn.

Explosion hazard

Aluminum dust is readily ignitable and explosive when suspended in air. In case of fire: Use extreme care to prevent dust cloud formation. 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

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

: May react violently or explosively on contact with water. Dousing metallic fires with water will generate hydrogen gas, an extremely dangerous explosion hazard, particularly if fire is in a confined environment (i.e., building, cargo hold, etc.). Containers may explode when heated. May re-ignite after fire is extinguished.

6.1.1. For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Emergency procedures : Use personal protective equipment as required.: 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

: Move containers from fire area if you can do it without risk. DO NOT USE WATER, FOAM OR CO2. Confining and smothering metal fires is preferable rather than applying water. If impossible to extinguish, protect surroundings and allow fire to burn it out. Do not walk through any dust resulting from damage to product. Prevent entry into waterways, sewers, basements or confined areas. Stop leak if you can do it without risk.

Methods for cleaning up : 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 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.

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Incompatible products : Strong acids. Reducing agents.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sandwich Panels Composed of Carbon Fiber Reinforced Epoxy Facing Skins Bonded to An Aluminum Honeycomb Core		
ACGIH	Not applicable	
OSHA	Not applicable	

Aluminum (7429-90-5)		
ACGIH	ACGIH TWA (mg/m³) 1 mg/m³ (respirable fraction)	
ACGIH Remark (ACGIH) Pneumoconiosis; LRT irr		Pneumoconiosis; LRT irr
OSHA PEL (TWA) (mg/m³) 5 mg/m³ (respirable particulate)		5 mg/m³ (respirable particulate)
OSHA	Remark (US OSHA)	15 mg/m³ (total dust)

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)

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

Antimony Pentoxide (1314-60-9)		
ACGIH	TLV 0.5 mg/m³ resp dust	
OSHA OSHA PEL (TWA) (mg/m³) 0.5 mg/m³ to 0.5		0.5 mg/m³ resp dust

Magnesium Oxide (1309-48-4)		
ACGIH TWA (mg/m³) 10 mg/m³		10 mg/m³
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³

Co-cured epoxy res	Co-cured epoxy resin/synthetic elastomer Particulates Not Otherwise Regulated		
ACGIH	Not applicable	ot applicable	
OSHA	Not applicable	Not applicable	

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

8.2. Exposure controls

Appropriate engineering controls	:	General ventilation. Local exhaust and enclosed processes may be necessary for processes	
		which 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.

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

Skin and body protection : Wear gloves impermeable to glass 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 : Grayish in Color

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 : 0.2-0.5a/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

Aluminum dust may generate hydrogen and heat when exposed to water. Water/aluminum powder mixture may be especially hazardous when confined and may react violently with strong oxides and many halogenated hydrocarbons. 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

10.5. Incompatible materials

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

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Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

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.	

Co-cured epoxy resin/synthetic elastomer	
≤ 2000 ml/kg	
: Not classified	
: Causes serious eye damage.	
: May cause an allergic skin reaction.	
: Not classified	
: 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

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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 smelting. Oxides from metallic fires are a severe health hazard. Inhalation or contact with substance or

decomposition product may cause severe injury or death.

Symptoms/injuries after inhalation Inhalation of aluminum powder may cause lung effects. Inhalation of metallic dust may be hazardous. Dust and fumes produced during processing should be treated as a dust hazard. This product contains aluminum, which can cause pulmonary fibrosis and lung damage if inhaled as a fine powder, and is complicated by silica and iron oxide dust. Aluminum may also

be implicated in Alzheimer's disease. Product will act as a nuisance dust. Inhalation of high concentrations of dust may cause coughing and mild, transitory respiratory 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.

Symptoms/injuries after ingestion Not expected to be an important route of entry into the body. Ingestion of large quantities of the

product may cause gastric discomfort or distress.

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.

SECTION 12: Ecological information

Toxicity

No additional information available

Persistence and degradability

No additional information available

Bio accumulative potential

No additional information available

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

: 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.

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	to An Aluminum 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:

Cured Epoxy Adhesive	CAS No Proprietary	C>=10.00%; C<=17.00%
Co-cured epoxy resin/synthetic elastomer	CAS No Proprietary	C>=10.00%; C<=16.00%

Antimony Pentoxide (1314-60-9)

Listed on United States SARA Section 313

Aluminum (7429-90-5)

Listed on United States SARA Section 313

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	

Aluminum (7429-90-5)

- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances

Magnesium Oxide (1309-48-4)

- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances

Antimony pentoxide (as Antimony) (1314-60-9)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Right to Know Hazardous Substances List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

Revision date : 07/25/2024

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:

Carc. 1B	Carcinogenicity Category 1B	
Comb. Dust	Combustible Dust	
H232	May form combustible dust concentrations in air	
H317	May cause an allergic skin reaction	
H318	Causes serious eye damage	
H335	May cause respiratory irritation	
H350	May cause cancer	
H361	Suspected of damaging fertility or the unborn child	

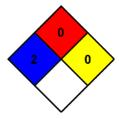
NFPA health hazard : 2 - Intense or continued exposure could cause temporary

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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