THE GILL CORPORATION

# Sandwich Panels Composed of Aluminum Skins Bonded To Glass/Epoxy Core

Safety Data Sheet

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## 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 Aluminum Skins Bonded To Glass/Epoxy Core

Other means of identification : GILLFAB 5433A, 5433C, 5433E

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

Use of the substance/mixture : Cargo compartment flooring panel

### 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: 1-800-824-9300

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (GHS-US)**

Skin Irrit. 2 H315
Eye Irrit. 2A H319
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) :
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H350 - May cause cancer (Dermal, Inhalation, oral)

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 mist, dust, fume
P264 - Wash hands, forearms and face thoroughly after handling
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
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
P321 - Specific treatment (see Section four (4) of this document on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
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. This product contains strontium chromate (Gillfab 5433A only) at < 0.4%. Strontium chromate contains 25.5 weight percent hexavalent chromium, which is listed as a carcinogen by NTP, IARC, and OSHA. Prolonged exposure may cause blood, gastrointestinal, nervous, and reproductive effects. Protective equipment should be used to minimize contact with this material, but it is not expected to present a significant hazard under normal handling.

### 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) |
|---|---|---|---|
| Aluminum | (CAS No) 7429-90-5 | 60 - 80 | Not classified |
| Fiberglass | (CAS No) 65997-17-3 | 19 - 30 | Carc. 1B, H350 |
| Epoxy Resin | Proprietary | 5 - 16 | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Skin Sens. 1, H317 |

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 affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/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 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.

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. Repeated and prolonged inhalation of aluminum powder may cause serious lung disorders... 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.

Symptoms/injuries after skin contact : Dusts and particulate matter may cause irritation of the skin. Repeated prolonged exposure may cause slow-healing skin lesions and allergic reactions.

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.

### 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 : As packaged: Any. Use media appropriate for surrounding fire.

If dust/powder fire is generated: Use a Class D fire extinguisher.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Can decompose in a fire emitting toxic fumes and gases of carbon dioxide, carbon monoxide, oxides of nitrogen, metal oxides; other toxic and irritating gases can be produced depending on condition of combustion.

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.

### 5.3. Advice for firefighters

Firefighting instructions : Use DRY sand, graphite powder, dry sodium chloride based extinguishers, G-1® or Met-L-X® powder.

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.

Special protective equipment for fire fighters : Wear full bunker gear including a positive pressure self-contained breathing apparatus.

## 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 : Equip cleanup crew with proper protection.

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 : Move containers from fire area if you can do it without risk. DO NOT USE WATER, FOAM OR $CO_2$. Confining and smothering metal fires is preferable rather than applying water. If impossible to extinguish, protect surroundings and allow fire to burn it out.

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 : Good housekeeping and engineering practices should be employed to prevent the generation and accumulation of dusts. DO NOT USE WATER for spill clean-up. Avoid dusting of powder to the greatest extent. Sweep spilled powder with natural bristle broom (push type recommended). Pick up material with a non-sparkling shovel. After complete clean up by sweeping, area may be washed down with copious quantities of water, if necessary.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 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.

Packaging materials : Place carefully in dry, water-tight containers. Seal containers.

### 7.3. Specific end use(s)

Use of the substance/mixture : Cargo compartment flooring panel

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

| Epoxy Resin (25068-38-6) | |
|---|---|
| ACGIH | Not applicable |
| OSHA | Not applicable |

| Fiberglass (65997-17-3) | |
|---|---|
| ACGIH | Not applicable |
| OSHA | Not applicable |

### 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 : Use insulated, impervious plastic or neoprene-coated canvas gloves and protective gear (apron, face shield, etc.) to protect hands and other skin areas.

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.

## SECTION 9: Physical and chemical properties

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

Physical state : Solid

Appearance : Sandwich panel.

Color : Metallic; Grayish in Color

Odor : None.

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 : No data available

Flash point : No data available

Auto-ignition temperature : No data available

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 : 2.0-2.5g/cc

Solubility : Unknown.

Log Pow : No data available

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 oxidizers and many halogenated hydrocarbons.

### 10.5. Incompatible materials

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

### 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, metal oxides; 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 |
| Skin corrosion/irritation | : | Causes skin irritation. |
| Serious eye damage/irritation | : | Causes serious eye irritation. |
| 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 | : | 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 smelting. |
| 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. Repeated and prolonged inhalation of aluminum powder may cause serious lung disorders.. 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. |
| Symptoms/injuries after skin contact | : | Dusts and particulate matter may cause irritation of the skin. Repeated prolonged exposure may cause slow-healing skin lesions and allergic reactions. |
| 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

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bio accumulative potential

Not expected to be acutely or chronically ecotoxic.

### 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 : 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 Aluminum Skins Bonded To Glass/**Epoxy 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

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.

| **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 does not contain any substances known to the state of California to cause cancer and/or reproductive harm

| **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 |

## SECTION 16: Other information

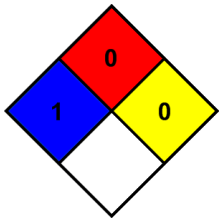
Full text of H-phrases:

| | |
|---|---|
| Carc. 1B | Carcinogenicity Category 1B |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Skin sensitization Category 1 |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H350 | May cause cancer |

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 : 1 - Slight Hazard - Irritation or minor reversible injury possible

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*