

Safety Data Sheet

according to Federal Register /

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

Date of issue: 09/01/2015 Revision date: 09/28/2015 Supersedes: 03/12/2004

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 an Aluminum Honeycomb Core

Other means of identification : GILLFAB® 4030 Panel

GILLFAB® 4030B Panel GILLFAB® 4030G Panel GILLFAB® 5020 Panel

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 (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)

Not classified

2.2. Label elements

GHS-US labeling

No labeling applicable

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 Chromium, Antimony compounds, Iron, and Lead Chromate (in chrome yellow Primrose pigment).

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	65 - 99	Not classified
Cured Epoxy Adhesive	(CAS No) Proprietary	2 - 3	Comb. Dust, H232
Magnesium Oxide	(CAS No) 1309-48-4	<= 3	Not classified
Manganese	(CAS No) 7439-96-5	<= 1.5	Aquatic Acute 3, H402

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.

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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.

Not expected to be an important route of entry into the body. If large amounts of particulate First-aid measures after ingestion

matter are ingested, it may cause gastrointestinal distress. Seek medical attention.

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.

Dusts and particulate matter may cause irritation of the skin. Repeated prolonged exposure Symptoms/injuries after skin contact

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.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Any, Use media appropriate for surrounding fire. Use a Class D fire extinguisher.

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.

Aluminum dust is readily ignitable and explosive when suspended in air. In case of fire: Use Explosion hazard extreme care to prevent dust cloud formation. Can decompose in a fire emitting toxic fumes

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

of combustion.

Advice for firefighters

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

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

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

SECTION 6: Accidental release measures

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.

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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.

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 wet-clean-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.

Sandwich Panels Composed of Aluminum Skins Bonded To Aluminum Honeycomb core

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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	
OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ (respirable particulate)	
OSHA	Remark (US OSHA)	15 mg/m³ (total dust)	

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

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

Manganese (7439-96-5)			
ACGIH	ACGIH TWA (mg/m³)	0.02 mg/m³	
ACGIH Remark (ACGIH)		CNS impair; A4	
OSHA	OSHA PEL (Ceiling) (mg/m³)	5 mg/m³	

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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)	5mg/m³ Respirable; 15 mg/m³ 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 : 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 : 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. If exposure limits are exceeded or irritation is experienced,

NIOSH approved respiratory protection should be worn.

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 pΗ 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 0.4-0.7q/cc Solubility Unknown. Log Pow No data available

Log Fow : 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

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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.

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, 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

Manganese (7439-96-5)		
LD50 oral rat	9	0000 mg/kg
ATE US (oral)	9	0000.000 mg/kg body weight
Skin corrosion/irritation	: N	Not classified
Serious eye damage/irritation	: N	Not classified
Respiratory or skin sensitization	: N	Not classified
Germ cell mutagenicity	: N	Not classified
Carcinogenicity	: N	Not classified
Reproductive toxicity	: N	Not classified
Specific target organ toxicity (single exposure)	: N	Not classified
Specific target organ toxicity (repeated exposure)	: N	Not classified
Aspiration hazard	: N	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	h F T ir	nhalation of aluminum powder may cause lung effects. Inhalation of metallic dust may be nazardous. 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 nhaled 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	: С	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	e n	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

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Manganese (7439-96-5)	
EC50 Daphnia	40 mg/l Bowmer, C.T., R.N. Hooftman, A.O. Hanstveit, P.W.M. Venderbosch, and N. Van der Hoeven 1998. The Eco toxicity and the Biodegradability of Lactic Acid, Alkyl Lactate Esters
	and Lactate Salts. Chemosphere 37(7):1317-1333

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

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 Aluminum Skins Bonded To 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>=2.00%; C<=3.00%

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.

Aluminum (7429-90-5)

Listed on United States SARA Section 313

Manganese (7439-96-5)

Listed on United States SARA Section 313

15.2. International regulations

CANADA

No additional information available

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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

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

Manganese (7439-96-5)

- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Maine Air Pollutants Hazardous Air Pollutants
- 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. Washington Permissible Exposure Limits TWAs

SECTION 16: Other information

Revision date : 09/28/2015

Data sources : 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/]. ChemADVISOR, Inc.[https://www.chemadvisor.com].

Full text of H-phrases:

Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Comb. Dust	Combustible Dust
H232	May form combustible dust concentrations in air
H402	Harmful to aquatic life

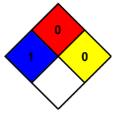
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

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 : 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

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