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 Carbon Fiber/Fiber Fiberglass- Reinforced Phenolic Facing

Skins Bonded to a Nomex® or Kevlar® honeycomb core

Other means of identification : G ** 4109, 4205, 4509, 4509, 4605, 4609, 5509, 5509B, 5609

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

Use of the substance/mixture

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Sandwich Panels Composed of Carbon Fiber/Fiberglass - Reinforced Phenolic Facing Skins Bonded to a Nomex[®] or Kevlar[®] Honeycomb Core

Safety Data Sheet

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

P307 + P311 - If exposed: Call a poison center/doctor

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

P321 - Specific treatment (see Section four (4) of this document on this label)

P333+P313 - If skin irritation or rash occurs: Get medical attention P337+P313 - If eye irritation persists: Get medical 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 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)
Co-cured phenolic resin/synthetic elastomer(containing Methanol, Phenol, Formaldehyde)	(CAS No) Proprietary	27 - 56	Carc. 2, H351 STOT SE 1, H370
Carbon	(CAS No) 7440-44-0	9 - 53	Comb. Dust, H232
Fiberglass	(CAS No) 65997-17-3	1 - 38	Carc. 1B, H350
Nomex Paper	(CAS No) 25765-47-3	5 - 23	Not classified
Kevlar Paper	(CAS No) 26125-61-1	0 - 20	Not classified
Cured Epoxy Adhesive	(CAS No) Proprietary	0 - 20	Comb. Dust, H232
Fire retardant (containing phenol)	(CAS No) Proprietary	0.7 - 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

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 presx a U N

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Symptoms/injuries after eye contact

Symptoms/injuries after ingestion Chronic symptoms

- : Dusts and particulate matter may cause irritation of the eyes. Mechanical irritation, potentially severe, can result from eye contact with this material.
- : May cause toxic effects if inhaled or ingested/swallowed.
- : 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.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store out of contact with the elements Incompatible products : Strong acids. reducing agents.

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control pa	arameters			
Sandwich Panels	Composed of Carbon Fiber/Fiberglass - Reinforce	d Phenolic Facing Skins Bonded to a Nomex or Kevlar honeycomb		
core				
ACGIH	Not applicable			
OSHA	Not applicable	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 (257	765-47-3)			
ACGIH	TLV	10 mg/m³ total dust		
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ total dust		
Fire retardant (co	ntaining phenol)			

ACGIH TLV 5 mg/m³ respdust OSHA OSHA PEL (TWA) (mg/m³) 3 mg/m³ resp dust

Kevlar Paper (26125-

EN (English US) 4/9 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

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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.

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, methane, formaldehyde, phenol, hydrogen cyanide, hydrogen bromide, oxides of nitrogen, 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

Skin corrosion/irritation : Not classified

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 : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure) : Causes damage to organs.

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

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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

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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	

Co-cured phenolic resin/synthetic elastomer(containing Methanol, Phenol, Formaldehyde) (Proprietary)				
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

: 09/28/2015

Data sources

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

[http://chem.sis.nlm.nih.gov/chemidplus/rn/116094-23-6]. GESTIS DNEL Database [http://dnelen.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
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Repr. 2	Reproductive toxicity Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3

EN (English US) 8/9 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

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