

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, 4505, 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

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

- 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 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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store out of contact with the elements
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/Fiberglass - Reinforced Phenolic Facing Skins Bonded to a Nomex or Kevlar honeycomb core		
ACGIH	Not applicable	
OSHA	Not applicable	
Fiberglass (65997-17-3)		
ACGIH	Not applicable	
OSHA	OSHA PEL (TWA) (mg/m ³)	3 fibers/cm ³ (fibers with diameter 3.5 µm & length 10 µm); 5 mg/m ³ TWA (total fibrous Fiberglass)
Carbon (7440-44-0)		
ACGIH	TLV	10 mg/m ³ resp dust
OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ total dust 5mg/m ³ resp dust
Nomex Paper (25765-47-3)		
ACGIH	TLV	10 mg/m ³ total dust
OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ total dust
Fire retardant (containing phenol)		
ACGIH	TLV	5 mg/m ³ respdust
OSHA	OSHA PEL (TWA) (mg/m ³)	3 mg/m ³ resp dust
Kevlar Paper (26125-		

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

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 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 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 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

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

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://dnel-en.itrust.de/nxt/gateway.dll/dnel_en/000000.xml?f=templates\\$fn=default.htm\\$vid=dneleng:ddb eng\\$3.0](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](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

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