THE GILL CORPORATION

Nylon Reinforced Epoxy Laminate Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 07/28/2015 Revision date: 08/03/2015 Supersedes: 03/12/2009

SECTION 1: Identification of the subs	tance/	mixture and of the company/ur	ndertaking	
1.1. Product identifier				
Product name	: Nylon	Reinforced Epoxy Laminate		
Other means of identification	: 1109 1137			
1.2. Relevant identified uses of the substa	ance or I	mixture and uses advised against		
Use of the substance/mixture	: The lir certair	ner is designed for use as the support and n military aircraft.	d protection of n	on-self-sealing fuel cells in
1.3. Details of the supplier of the safety da	ata shee	t		
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:	1-626-4	43-4022 CHEMTREC: 1-800-424-9300)	
SECTION 2: Hazards identification				
2.1. Classification of the substance or mix	kture			
Classification (GHS-US)				
Not classified				
2.2. Label elements				
GHS-US labeling				
No labeling applicable				
2.3. Other hazards				
Ither hazards not contributing to the lassification : 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. As shipped this material is an inert nylon fabric/epoxy laminate in which ingredients have been polymerized using heat and pressure. This product contains trace amounts of lsopropylidenediphenol.				
2.4. Unknown acute toxicity (GHS-US)				
Not applicable				
SECTION 3: Composition/information	on ing	gredients		
3.1. Substance				
Not applicable				
S.2. MIXIUIE		Due duet identifieu	0/	
Name		CAS No) 32131-17-2	% 30 - 70	Not classified
Cured Epoxy Resin		(CAS No) Proprietary	30 - 70	Not classified
Full text of H-phrases: see section 16				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
irst-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	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.			
rst-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	id 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.			
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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 dust may result in itching and upper respiratory tract irritation. Vapors may cause dizziness or suffocation.
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.
4.3. Indication of any immediate medical at	tention and special treatment needed

4.3. No additional information available

SECT	ION 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable	extinguishing media	: Any. Use media appropriate for surrounding fire.	
5.2.	Special hazards arising from the sub	stance or mixture	
Fire haz	ard	: Product will not burn.	
Explosion hazard		Can decompose in a fire emitting toxic fumes and gases of CO, CO ₂ , various low molecular weight hydrocarbons, organic acids and other irritating or toxic gases, acrid smoke, and fumes. Large amounts of dust can be explosive and precautions given in Section 6 should be taken to avoid generating excess dust	
5.3.	Advice for firefighters		
Firefight	ting instructions	: Evacuate area.	
Protection during firefighting		Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.	
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.	

SECTI	SECTION 6: Accidental release measures				
6.1.	Personal precautions, protective equipment and emergency procedures				
General	measures	: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Avoid breathing dust.			
6.1.1.	For non-emergency personnel				
Emergen	cy procedures	: Evacuate unnecessary personnel.			
6.1.2.	For emergency responders				
Protectiv	e equipment	: Equip cleanup crew with proper protection.			
Emergen	cy 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	It and cleaning up
For cont	ainment	: Do not walk through any dust resulting from damage to product. Prevent entry into waterways, sewers, basements or confined areas.
Methods	for cleaning up	: Pick up product and return to original packaging if reusable. If not reusable, place in appropriate containers for disposal. 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.

SECT	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ons for safe handling	: Good housekeeping and engineering practices should be employed to prevent the generation and accumulation of dusts. Wet mopping or vacuuming with a unit that contains a HEPA filter is recommended to clean up any dusts that may be generated during handling and processing.

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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.		
Incompa	atible products	: Strong acids. Reducing agents.		
Packagi	ng materials	: Place carefully in dry, water-tight containers. Seal containers.		
7.3.	Specific end use(s)			
Use of t	he substance/mixture	: The liner is designed for use as the support and protection of non-self-sealing fuel cells in certain military aircraft		

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

NYLON-66 (32131-17-2)			
ACGIH	ACGIH TWA (mg/m³)	10mg/m3 (total dust);3mg/m3 (respirable particulates)	
OSHA	OSHA PEL (TWA) (mg/m³)	15mg/m3 (total dust);5mg/m3 (respirable particulates)	

Cured Epoxy Resin (Proprietary) Particulates Not Otherwise Regulated			
ACGIH	Not applicable		
OSHA	Not applicable		
Particulates Not Otherwise Regulated (Total Dust)			
ACGIH	ACGIH TWA (mg/m³)	3 mg/m ³ Respirable; 10 mg/m ³ Total dust	
OSHA	OSHA PEL (TWA) (mg/m³)	5mg/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	: 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 chemic	al properties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Solid
Appearance	: Flat Laminate.
Color	: Tan; Off white
Odor	: None to Low Odor
Odor threshold	: No data available
pH	: Not 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

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Relative vapor density at 20 °C	:	1.5g/cc
Relative density	:	No data available
Solubility	:	No data available
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

Reactivity No additional information available

10.2. **Chemical stability**

10.1.

Product is stable. Hazardous polymerization will not occur.

10.3. Possibility of hazardous reactions

No additional information available

10.4. **Conditions to avoid**

Do not store with or near strong acids, or reducing agents.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

CO, CO₂, various low molecular weight hydrocarbons, organic acids and other irritating or toxic gases, acrid smoke, and fumes. Flammable gases and vapors may also be produced during thermal decomposition.

SECTION 11: Toxicological information					
11.1. Information on toxicological effects					
: Not classified					
: Not classified					
pH: Not Available					
: Not classified					
pH: Not Available					
: May cause an allergic skin reaction.					
: Not classified					
(No known significant effects or critical hazards.)					
: Not classified					

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(Bis test Mar How som hum	sphenol A (BPA) has been extensively tested in a wide variety of toxicological and biological s, and has undergone many reviews internationally by a variety of governmental agencies. Ny of these studies have focused on reproductive, developmental and endocrine endpoints. Never, the human data is limited and insufficient to evaluate reproductive toxicity. While the studies show, or claim to show, target organ toxicity, fertility, or reproductive effects in thans; these studies lack internal and external validity as a result of flawed study design, tiple sources of bias, and lack of control for confounding factors.
	nerous animal studies have been conducted and report a range of potential reproductive
Nun effe stud mor on s toxid 201 exp worl repr Mat weig role thes play	the suffer from design flaws and reported observations have not been confirmed in larger, is suffer from design flaws and reported observations have not been confirmed in larger, is robust studies. Comprehensive reviews of the scientific literature on BPA have focused several well designed animal studies as a robust foundation for assessing BPA reproductive city (e.g., NTP 1985; Ema et al. 2001; Tyl et al. 2002a, 2002b; Tyl et al. 2008; Delclos et al. 4). In these studies, BPA was administered to rats and/or mice by the oral route of osure including doses that far exceed those potentially experienced by humans, including kers. In these studies, either no reproductive toxicity was reported, or treatment-related roductive effects were reported only at doses where maternal toxicity was observed. ernal toxicity was manifest as liver toxicity, kidney toxicity, and overall depressions in body ght or body weight gains. The presence of these clear toxic effects was consistent with the of stress and general systemic toxicity in the development of the reproductive effects at se high doses of BPA. The authors of these studies all concluded that systemic toxicity we a role in the observation of the reproductive effects.
By I Dep Res chai toxia eval Bas robu the insu abs repr as a	etter dated April 6, 2015, the U.S. Food and Drug Administration ("FDA") of the U.S. bartment of Health & Human Services reported that FDA's National Center of Toxicological search ("NCTR") "recently completed a large scale rodent toxicity study designed to racterize potential effects of BPA in a wide range of endpoints, including reproductive city. The results from the large extent of reproductive, sperm and hormone parameters luated in the NCTR study do not support BPA as a reproductive toxicant." eed on the total weight of evidence of the experimental animal data, including the lack of ust epidemiological data for reproductive effects, well-established pharmacokinetic data and results of FDA's recent large scale toxicity study and using expert judgment, there is ufficient scientific support to associate reproductive toxicity with BPA exposure in the ence of systemic toxicity. Because experimental animal studies have indicated potential for roductive effects in association with maternal toxicity at high doses, BPA has been classified a Category 2 suspected human reproductive toxicant as required by OSH)
Specific target organ toxicity (single exposure) : Not	classified
Reproductive toxicity : End	locrine system, liver, kidneys (oral, Inhalation).
(A I solu (Xei mut	known amount of product was extracted with a liter of distilled water. The resulting extract ution was used to derive the toxicity parameters. The extract was not teratogenic to frog nopus laevis) embryos at extract concentrations of 1,000 grams per liter (g/l) and not agenic to Salmonella typhimurium at concentrations of 2,000 g/l.)
Specific target organ toxicity (single exposure) : Not	classified
Specific target organ toxicity (repeated : Not exposure)	classified
Aspiration hazard : Not	classified
Symptoms/injuries : As page	packaged, this material does not present significant health hazards. The hazards below ly to the product if aerosols or dusts are generated from cutting, grinding, or smelting.
Symptoms/injuries after inhalation : Inha dizz	alation of dust may result in itching and upper respiratory tract irritation. Vapors may cause riness or suffocation.
Symptoms/injuries after skin contact : Dus	ts and particulate matter may cause irritation of the skin.
Symptoms/injuries after eye contact : Dus	ts and particulate matter may cause irritation of the eyes.
Symptoms/injuries after ingestion : Not proc	expected to be an important route of entry into the body. Ingestion of large quantities of the duct may cause gastric discomfort or distress.
Chronic symptoms : Pers exce mec und	sons with a history of chronic lung diseases may be at increased risk from exposure to essive levels of nuisance dust. Persons with medical conditions generally aggravated by chanical irritants in the air or on the skin may be at increased risk for a worsening of the erlying condition if exposed.
Symptoms/injuries : As p app	backaged, this material does not present significant health hazards. The hazards below ly to the product if aerosols or dusts are generated from cutting, grinding, or smelting.

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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				
No additional information available				
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	Disease is a sefe meaning is accordance with local/actional regulations			
Waste disposal recommendations	Dispose in a sare manner in accordance with local/national regulations.			
Additional information :	The product is not considered hazardous under current EPA hazardous waste regulations. Recycling is the preferred method of disposal. Alternatively, the product may be disposed of in an approved landfill. All wastes should be evaluated in conjunction with applicable solid and hazardous waste regulations and disposed of as appropriate. 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				
Nylon Reinforced Epoxy Laminate				
Not listed on the United States TSCA (Toxic Substances Control Act) inventory				
Cured polyester resin (Not Available)				
Not listed on the United States TSCA (Toxic Substances Control Act) 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.				
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

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15.2.2. National regulations **National regulations**

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information	
Revision date	: 08/03/2015
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:

	Popr 2	Poproductive toxicity Category 2
	Repl. 2	Reproductive toxicity Category 2
	Skin Sens. 1	Skin sensitization Category 1
	H317	May cause an allergic skin reaction
	H361	Suspected of damaging fertility or the unborn child
NFPA I	health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA 1	fire hazard	: 0 - Materials that will not burn.
NFPA reactivity		: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
	II Define	

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