ASP Technology

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XM56L1400R

Raw Material: BIAS: CARBON G34-700 WD 12K (.012 K)

(MCCFC)

Diameter: 14.00"

Braid Angle: +/- 45°

Braid Yield: 2.2 ft/lb

Areal Weight: 596 GSM

Layer Thickness: 0.027 in (50% Fiber Volume)

Sharx[®] Braided Biaxial Sleevings

A&P Technology is the exclusive manufacturer of Sharx[®] brand braided reinforcement. Sharx[®] braided sleevings easily and repeatedly conform to the shape of products with changing geometries.

For more information please visit www.braider.com, or contact a sales representative at 513-688-3200

All technical information and data contained herein is believed accurate and reliable. However, the accuracy and completeness of this information is not guaranteed and is subject to change without notice. A&P Technology shall not be liable for injury, loss or damage whether direct or consequential arising out of the use of the data provided herein.

19A424 19A425

Grafil™ Carbon Fiber Size Code "A"

Product Safety Information Sheet A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis

	Dasis Date of issue: 10/31/2018 Version	- 10	sheet has been created on a voluntar	
SECTION	Date of issue: 10/31/2018 Version	1. 1.0		
SECTION 1: Identification				
1.1. Identification Product form				
Product form	: Article			
	: Grafil™ Carbon Fiber Si	ze Code "A"		
1.2. Recommended use and res	strictions on use			
Use of the substance/mixture	: Structural material			
1.3. Supplier				
Mitsubishi Chemical Carbon Fiber and 0 5900 88th St.	Composites			
Sacramento CA 95828 USA				
1.4. Emergency telephone numb	ber			
Emergency number		E 00		
	: (+1) 916 386-1733 (9:00 a	am - 5:00 pm, M - F, F	PST)	
SECTION 2: Hazard(s) identific				
2.1. Classification of the substan				
GHS-US classification				
Skin sensitization, Category H317	May cause on all	and a state of the		
1	May cause an alle	rgic skin reaction		
ull text of H statements : see section 16				
2. GHS Label elements includin				
2. GHS Label elements, includir GHS-US labeling	ig precautionary statements			
lazard pictograms (GHS-US)	· · · · · · · · · · · · · · · · · · ·			
	\sim			
ignal word (GHS-US)	: Warning			
azard statements (GHS-US)	: H317 - May cause an allerg	ic skin reaction		
recautionary statements (GHS-US)	: P261 - Avoid breathing dust			
	P272 - Contaminated work clothing should not be allowed out of the			
	P302+P352 - If on skin: Was P333+P313 - If skin irritation P363 - Wash contemport	or rach accura: Cat		
	1 000 - Wash contaminated (Clothing before reuse		
3. Other hazards which do not re-	PSUT - Dispose of contents/c	container to an author	ized waste collection point	
and the second of which do not rea	sult in classification			
her hazards not contributing to the sification	: This product is an "article" as	defined in US OSHA	HazCom (GHS) 25 May 2012, and is	
	itching of the skin and eves	be generated. Carbo	n fibers and dust may cause irritation and	
. Unknown acute toxicity (GHS U	IS)			
applicable				
CTION 3: Composition/Information	ation on ingradients			
. Substances	ation on ingredients			
applicable				
Mixtures				
Ime				
ame arbon fibers	CAS-No.) 7440-44-0	%	GHS-US classification	

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not in use.

6.3. Methods and material for co	ontainment and cleaning up
Methods for cleaning up	: Shovel or sweep up and put in a closed container for disposal. After all material has been collected, the area should be vacuumed with HEPA filter-equipped apparatus.
6.4. Reference to other sections	
SECTION 8: Exposure controls/persona	al protection. SECTION 13: Disposal considerations.
SECTION 7: Handling and sto	rage
7.1. Precautions for safe handlin	ng
Precautions for safe handling	Provide appropriate exhaust ventilation at places where dust is formed. Drilling, cutting or reshaping of the product will generate dust. Avoid dust formation. Avoid breathing dust. Avoid contact with skin, eyes and clothing.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.
7.2. Conditions for safe storage,	including any incompatibilities
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container closed when

: Strong oxidizing agents. Strong acids. Aliphatic amines.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Incompatible materials

Dust			
ACGIH	Local name	Particles Not Otherwise Specified	
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ inhalable 3 mg/m³ respirable	
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ Total dust 5 mg/m³ Respirable Fraction	
OSHA	OSHA PEL (TWA) (ppm)	15 mppcf	
OSHA	Remark (OSHA)	Table Z-3	
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts	

8.2. Appropriate engineering controls	
Appropriate engineering controls	: Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded. Provide appropriate exhaust ventilation at places where dust is formed.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Protective gloves. Latex. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

Eye protection:

In case of dust production: protective goggles

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

Not required for normal conditions of use. In case of inadequate ventilation: Use an approved air purifying respirator to control exposure. Follow respirator protection requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

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Acute toxicity (oral)	: Not classified		
Acute toxicity (dermal)	: Not classified		
Acute toxicity (inhalation)	: Not classified		
Reaction product: bisphenol-A-(epichlorh	ydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)		
	> 2000 mg/kg		
LD50 dermal, rabbit	> 22800 mg/kg		
Carbon fibers (7440-44-0)			
Additional informationLC50, Inhalation, rat: > 64.4 mg/kg (Calgon Carbon Corp.)LD50, oral, rat: ≥ 10,000 mg/kg (Calgon Carbon Corp.)LD50, intravenous, mouse: 440 mg/kg			
	TDLo, Reproductive toxicity, subcutaneous, rat, female: 167,000 mg/kg (8 days, continuous)		
Bisphenol A (80-05-7)			
LD50 oral, rat	≈ 5000 mg/kg		
LD50 dermal, rabbit	≈ 3000 mg/kg		
LC50 inhalation, rat (mg/l)	170 mg/m ³ - 6 Hours		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitization	: May cause an allergic skin reaction.		
Germ cell mutagenicity	: Not classified		
Carcinogenicity : Not classified			
Reproductive toxicity	: Not classified		
Specific target organ toxicity – single exposure	: Not classified		
Bisphenol A (80-05-7)			
Specific target organ toxicity - single exposure	May cause respiratory irritation.		
Specific target organ toxicity - repeated	: Not classified		
xposure			
spiration hazard	: Not classified		
iscosity, kinematic	: No data available		
otential Adverse human health effects and /mptoms	: Dust may cause mechanical irritation of the eyes, skin and upper respiratory tract. May cause an allergic skin reaction.		
ECTION 12: Ecological information			
2.1. Toxicity			
	: Not classified.		
EC50 Daphnia	n), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)		
	≈ 2 mg/l - 48 Hours (Daphnia magna)		
Bisphenol A (80-05-7)			
.C50 fish	4.6 mg/l - 96 Hours (Pimephales promelas)(OECD 203 method)		
C50 Daphnia	10.2 mg/l - 48 Hours (Daphnia magna)(E07-04, ASTM E-35.21)		
C50 other aquatic organisms 1	1.1 mg/l - 96 Hours (Americamysis bahia)(E07-04)		
C50 fish 2	9.4 mg/l - 96 Hours (Menidia menidia)(OECD 203 method)		
OEC (chronic)	0.025 mg/l - 328 days (Marisa comuarietis)		
OEC chronic fish	0.016 mg/l - 444 days (Pimephales promelas)(EPA OPP 72-5)		
OEC chronic crustacea	0.17 mg/l - 28 days (Americamysis bahia)		
2. Persistence and degradability			
rafil™ Carbon Fiber Size Code "A"			
	No data available		
and dogradubility	No data available.		

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Carbon fibers (7440-44-0)	
Listed on the United States TSCA (Tox	ic Substances Control Act) inventory
4,4'-Isopropylidendiphenol, polymer	with 2,2-Bis(p-(2,3-epoxypropoxy)phenyl)propane (25036-25-3)
Listed on the United States TSCA (Tox	ic Substances Control Act) inventory
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
Bisphenol A (80-05-7)	
Listed on the United States TSCA (Tox	c Substances Control Act) inventory

15.2. International regulations

CANADA

Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700) (25068-38-6)

Listed on the Canadian DSL (Domestic Substances List)

Carbon fibers (7440-44-0)

Listed on the Canadian DSL (Domestic Substances List)

4,4'-Isopropylidendiphenol, polymer with 2,2-Bis(p-(2,3-epoxypropoxy)phenyl)propane (25036-25-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

MARNING: This product can expose you to Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Bisphenol A(80-05-7)			Х	х		

Component	State or local regulations		
Carbon fibers(7440-44-0)			
Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight \leq 700)(25068-38-6)			
4,4'-Isopropylidendiphenol, polymer with 2,2-Bis(p-(2,3- epoxypropoxy)phenyl)propane(25036-25-3)			
Bisphenol A(80-05-7)	U.S New Jersey - Right to Know Hazardous Substance List		

SECTION 16: Other information

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Data sources Other information

- : US OSHA HazCom (GHS) 25 May 2012.
- : None.