

MATERIAL SAFETY DATA SHEET

Version: SK CFPP-041 Date Updated: 2013-11-13

SECTION 1: IDENT	IFICATION OF SUPPLIER AND CHEMICAL
Product Name	: SK Carbon Fiber Prepreg (SKR T21 Resin Matrix)
Chemical Family	: Formulated Epoxy Resin Impregnated Material with Carbon Fiber
Recommendation for Use	: Structural Material use, Sports & Leisure
COMPANY INFORMATI	ON
Company name	: SK Chemicals Co., Ltd
Address	: 686 Sampyeong dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-400, Korea
Fax	: +82-2-2008-2493
Email Address	: jinugenie@sk.com
Emergency Telephone	: +82-2-2008-2008

SECTION 2: HAZARD IDENTI	FICATION	
NFPA Class(0-4 class)		: Health = 0, fire = 1, Reactivity = 1
GHS Classification		
Physical Hazards		
Explosives		: Classification not applicable
Flammable Gases		: Classification not applicable
Flammable Aerosol	S	: Classification not applicable
Oxidazing Gases		: Classification not applicable
Gas Under Pressure	e	: Classification not applicable
Flammable Liquids		: Classification not possible
Flammable Solids		: Classification not possible
Self-Reactive Subst	ances and Mixtures	: Classification not applicable
Prrophoric Liquids		: Classification not applicable
Prrophoric Solids		: Classification not applicable
Self-Heating Substa	ances and Mixtures	: Classification not possible
Substances and Miz Contact with Water, Gases		: Classification not possible
Oxidizing Liquids		: Classification not applicable
Oxidizing Solids		: Classification not applicable
Organic Peroxides		: Classification not possible
Corrosive to Metals		: Classification not possible
Health and Environmental H	Hazards	
Acute Toxicity-Oral		: Not classified
Acute Toxicity-Skin		: Not classified
Acute Toxicity-Inhal	ation(gases)	: Classification not applicable
Acute Toxicity-Inhal	ation(Steam)	: Classification not possible
Acute Toxicity-Inhal	ation(Vapor)	: Classification not possible
Acute Toxicity-Inhal	ation(Fine Particle, Mist)	: Classification not possible
Skin Corrosion/Irrita	ition	: Category 3
Serious Sys Damag	e/Eye irritation	: Not classified



Respiratory Sensitization	: Classification not possible
Skin Sensitization	: Category 1
Germ Cell Mutagenicity	: Classification not possible
Carcinogenicity	: Classification not possible
Toxic to Reproduction	: Classification not possible
Specific Target organ systemic Toxicity	: Classification not possible
Specific Target organ systemic Toxicity	: Classification not possible
Aspiration Hazard	: Classification not possible
Aquatic Toxicity(Acute)	: Category 1
Aquatic Toxicity(Chronic)	: Category 1

Label Pictogram

Elements

Signal Word Hazard Statement Effect of Overexposure(Skin) Effect of Overexposure(Eyes) Precautionary Statements

- : warning
- : may be harmful in contact with skin.
- : prolonged or repeated contact may cause skin
- : may cause irritation or inflammation.
- : call a doctor if you feel unwell.
- : wear protective gloves/clothing and eye/face
- : wash thoroughly after handling.



SECTION 3: COMPOSITION/INFORMATION ON	INGREDIENTS	
Component	WT%	CAS No.
Fiber		
Carbon Fiber	40 ~ 80	-
Formulated Resin		
Epoxy, Diglycidyl Ether of Bisphenol A	10 ~ 30	Mixture
Other Formulated Epoxy Resin	5 ~ 15	Trade Secret
Reactive Liquid Rubber (Carboxyl Terminated Butadiene-Acrylonitrile)	5 ~ 15	68891-50-9
Formulated Hardener	0.5 ~ 10	Trade Secret

SECTION 4:	FIRST AID MEASURES
Eye (Contact)	: Flush Eyes with Water for 15 minutes Seek Medical Attention if Symptoms
	Persist.
Skin (Contact)	: Wash with Copious Amounts of Soap and Water. Wash Contaminated Clothing Before Wearing.
Ingestion (Swallo	wing) : If Significant Quantity Has Been Swallowed, Give Two Glasses of Water and Induce Vomiting. Seek Medical Attention.



SECTION 5: FIREFIGHTI	NG MEASURES
Flash Point	: Not Applicable
Flammable Limit	: Not Applicable
Extinguishing Media Suitable Extinguishing Media	: In Case of Fire. Use Water Spray(Fog), Dry Chemical, Foam or Carbon Dioxide
Unusual Fire and Explosion Hazard	: UnKnown
Special Fire Fighting Procedure	: Promptly Isolate The Scene by Removing all Persons From the Vicinity of The Incident If There is a Fire. Self-Contained Breathing Apparatus and Protective Clothing Should Be Worn in Case of Fires
Special Protective Equipment For Fire-Fight	: Fire-Fighter Should Wear Appropriate Protective Equipment and Self- Contained Breathing Apparatus with a Full Face-Piece operated in Positive Pressure Mode

SECTION 6: ACCIDE	ITAL RELEASE MEASURES
Personal Precautions	: Wear Suitable Protection Clothing, Gloves and Eye/Face Protection. Use Self-Contained Breathing Apparatus and Chemically Protective Clothing. Evacuate Personnel to Safe Areas.
Environmental Precautions Waste Disposal Method	 Prevent Product From Entering Drains. Bury in The Designated Ground in Accordance With Local and National Regulations. Do not Incinerate It. Incineration May Generate Airborne Fibers Which May Cause Electrical Malfunctions

SECTION 7: HANDLI	NG AND STORAGE
Precaution to be taken in Handling and Storage	: Materials Should be Sealed Against Contamination From Dirt and Moisture. Store Below 39°F.
Other Precautions	: Carbon Fiber is Electrically Conductive. It May Cause Short Circuits of Electric Apparatus, Especially When Airborne Fibers are Drifting in The Circumference
Personal Precautions	: Wear Suitable Protection Clothing, Gloves and Eye/Face Protection. Use Self- Contained Breathing Apparatus and Chemically Protective Clothing. Evacuate Personnel to Safe Areas.
Environmental Precautions	: Prevent Product From Entering Drains.
Waste Disposal Method	: Bury in The Designated Ground in Accordance With Local and National Regulations. Do not Incinerate It. Incineration May Generate Airborne Fibers Which May Cause Electrical Malfunctions

SECTION 8: EX	POSURE CONTROL / PERSONAL PROTECTION
Respiratory Protection	: Vapor Respirator is Recommended When Heated to $120^{\circ}F$ or Above.
Ventilation	: Adequate Ventilation is Recommended While Machining Cured Product.
Protection Gloves	: Protective Gloves
Eye Protection	: Safety Goggles
	Safety Glasses and/or Goggles Should be Worn While Machining Cured Product.
Other Protective Equipment	: Eye Wash Fountains, Creams For Epoxy Resin.



SECTION 9: PHYS	ICAL AND CHEMICAL PROPERTIES
Boiling Point	: Not Applicable
Vapor Pressure(mmHg)	: Not Applicable
Vapor Density(air=1)	: Not Applicable
Solubility in Water	: Not Applicable
Specific Gravity(H2O=1)	: Not Applicable
Percent Volatile	: < 1%
Evaporation Rate	: Not Applicable
Appearance and Odor	: Resin Impregnated Material, Practically Odorless.

SECTION 10: STABILITY	AND REACTIVITY
Stability	: Stable But Has Reactivity.
Conditions to Avoid	: Avoid Excess Heat.
Incompatibility(Materials to Avoid)	: Strong Acids, Bases, Oxidizing Agent.
Hazardous Decomposition Products	: May Form Toxic Materials, Avoid Inhalation.
Hazardous Polymerization	: Will Not occur
Conditions to Avoid	: Not Anticipated

SECTION 11: TOXICOLO	GICAL INFORMATION
Ingestion/Inhalation	: Not Available
Subacute/ Chronic toxicity	: Not Available
Mutagenic/Next Generation Effect	: Not Available
Carcinogenic Effects	: Not Available
Etc. Uniqueness	 Prolonged or Repeated Contact May Cause Skin Irritation or Allergic Reactions in Sensitive Individual.

SECTION 12:	ECOLOGIC	AL INFORMATION
Aquatic Toxicity/Ecotoxicological		: Not Available
Mobility in the Soil		: Not Available
Persistence/Degradability		: Not Available
Bio Accumulative Potential		: Not Available

SECTION 13: D	DISPOSAL INFORMATION
	: Do not Incinerate, May be Land Filled in Accordance With National and Local
Methods of Disposal	Regulations. Do not Dump This Product in to Sewers, on The Ground or Into Any
	Body of Water.
Disposal Considerat	ions : Fiber Dust is Occurred Electrical Equipment Failure.



SECTION 14: TRANSPORTATION INFORMATION		
Classification and Regulation		
By Danger Material Ship Transport and Storage Rules	: Not Applicable	
Precautions of Transportation	: Refer to Section 7	
SECTION 15: REGULATORY INFORMATION		
Regulation of Occupation Safety and Health Acts	: Not Applicable	
Regulation of Harmful Chemical Substance	: Not Applicable	
Application of Foreign Law	: Not Applicable	

SECTION 16: OTHER INFORMATION

We believe the information on this data sheet is correct to the best of our current knowledge. However, no warranty is made with respect to its completeness. This material safety data sheet does not anticipate all the situation in which this material is processed or all the physical and mental characteristics of each individual who is involved in the processing.

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