

MATERIAL SAFETY DATA SHEET

Version: SK AFPP-013 Date Updated: 2013-11-13

SECTION 1: IDENTIFICATION OF SUPPLIER AND CHEMICAL

Product Name : SK Aramid Fiber Prepreg (SKR K51 Resin Matrix)

Chemical Family : Formulated Epoxy Resin Impregnated Material with Aramid Fiber

Recommendation for

Use : Structural Material use, Sports & Leisure

COMPANY INFORMATION

Company name : SK Chemicals Co., Ltd

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SECTION 2: HAZARD IDENTIFICATION

Explosives

NFPA Class(0-4 class) : Health = 0, fire = 1, Reactivity = 1

GHS Classification

Physical Hazards

Flammable Gases : Classification not applicable Flammable Aerosols : Classification not applicable Oxidazing Gases : Classification not applicable Gas Under Pressure : Classification not applicable Flammable Liquids : Classification not possible Flammable Solids : Classification not possible Self-Reactive Substances and Mixtures : Classification not applicable Prrophoric Liquids : Classification not applicable Prrophoric Solids : Classification not applicable Self-Heating Substances and Mixtures : Classification not possible

: Classification not applicable

Substances and Mixtures, Which in

Contact with Water, Emit Flammable : Classification not possible

Gases

Oxidizing Liquids : Classification not applicable
Oxidizing Solids : Classification not applicable
Organic Peroxides : Classification not possible
Corrosive to Metals : Classification not possible

Health and Environmental Hazards

Acute Toxicity-Oral : Not classified
Acute Toxicity-Skin : Not classified

Acute Toxicity-Inhalation(gases) : Classification not applicable
Acute Toxicity-Inhalation(Steam) : Classification not possible
Acute Toxicity-Inhalation(Vapor) : Classification not possible
Acute Toxicity-Inhalation(Fine Particle, Mist) : Classification not possible

Skin Corrosion/Irritation : Category 3
Serious Sys Damage/Eye irritation : Not classified



Respiratory Sensitization : Classification not possible

Skin Sensitization : Category 1

Germ Cell Mutagenicity : Classification not possible : Classification not possible

Carcinogenicity

Precautionary Statements

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 : warning

Hazard Statement : may be harmful in contact with skin.

: prolonged or repeated contact may cause skin Effect of Overexposure(Skin)

Effect of Overexposure(Eyes) : 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	NGREDIENTS	
Component	WT%	CAS No.
Fiber		
Aramid Fiber	40 ~ 80	-
Formulated Resin		
Epoxy, Diglycidyl Ether of Bisphenol A(Liquid)	5 ~ 15	25068-38-6
Epoxy, Diglycidyl Ether of Bisphenol A (Solid)	5 ~15	25036-25-3
Other Formulated Epoxy Resin	5 ~ 15	Trade Secret
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 (Swallow	ring) : If Significant Quantity Has Been Swallowed, Give Two Glasses of Water and Induce Vamiting, Seek Medical Attention



SECTION 5: FIREFIGHTING 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: ACCIDENTAL 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 : 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 7: HANDLING 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

: 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: EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory Protection : Vapor Respirator is Recommended When Heated to 120°F or Above.

Ventilation : Adequate Ventilation is Recommended While Machining Cured Product.

Protection Gloves

: Protective Gloves

Safety gloves

Rubber or Plastic Gloves Should be Worn at All Times While Handling This Material.

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: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point : Not Applicable

Vapor : Not Applicable

Pressure(mmHg)

Vapor Density(air=1)

Solubility in Water

Specific

Specifi

Percent Volatile : < 1%

Gravity(H2O=1)

Evaporation Rate : Not Applicable

Appearance and Odor : Black, 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: TOXICOLOGICAL 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: ECOLOGICAL INFORMATION

Aquatic

Toxicity/Ecotoxicological

Mobility in the Soil : Not Available

Persistence/Degradability : Not Available

Bio Accumulative Potential : Not Available

SECTION 13: 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.

: Not Available

Disposal Considerations : 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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