Original edition : May 16, 2016 Latest revision : July 21, 2016

## **Product Information Sheet**

	Item	Description							
1.	Identification	Product category : Prepreg							
		Produ	ct designation	: R-1410E					
		any name							
		Location			111,Azaishizuka,Koriyama,Fukushima 963-8556 Japan				
		Depar	tment	: Quality Assurance Koriyama Department, Quality Center					
	Telephone number			:					
				+81-24-944-2903					
			number						
	Hazards	GHS o	classification	Not applicable to Classification Standard					
	identification	Hazar		: Not applicable					
			dous property	: Not applie					
			onmental impact	: Not applie					
	Composition /		Classification (single product or composite) : Composite						
	information on ingredients	Ingred	lients and contained a	mount	:				
	nigredients					Contained amount			
			Ingredien	t	CAS Number	Contained amount			
			Curad anavy	racin	None	(wt%) 20 to 35			
			Cured epoxy Inorganic fi		Trade secret	35 to 60			
					65997-17-3	15 to 35			
			Woven glass cloth		-	13 to 33			
			Total			100			
	Total					100			
4.	First aid measures	If inha	during handling and processing, ek medical advice.  wder generated during handling and d clean water and, as needed, seek						
		processin			ar eyes are in contact with fine pog, never rub your eyes by hand a ely and, as needed, seek medical				
		If swa	llowed	n inhaled fine powder generated on the clean water and, as needed, see					
5.	Fire fighting measures	Fire exmetho	xtinguishing od		Battle the fires from the windward side to avoid inhalation of toxic gas.  Wear respiratory protection equipment depending on the situation.				
		Exting	guishant	: Use exting nothing sp	-	, foams, carbon dioxide although			

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6.	Accidental release measures	Precautions for human body		Wear a protective mask, protective gloves and protective glasses as needed.			
		Collection and purification method, etc.	:	When materials such as powder and mills ends have spilled on the floors, etc., clean them quickly and quietly so that powder dust does not fly and treat them in an appropriate way in accordance with country's or regional restrictions.			
7.	Precautions for handling and storage	Handling	•	If powder dust generated from cutting or drilling process is attached on skin, skin may be irritated or poisoned. Wear protective tools when operating at such a workplace to avoid direct contact with powder dust.			
		Storage	:	Avoid direct sunlight and store the product under recommended temperature and humidity conditions from our company.			
8.	Exposure controls	Control concentration		Not applicable			
	and protection	Allowable concentration					
	measures	Japan Society for Occupational Health	:	The Japan Society for Occupational Health: Class 3 dusts(Inorganic and dusts other than Class 1 and 2); Respirable dust 2mg/m³, Total dust 8mg/m³			
		ACGIH	:	Not applicable			
		Equipment measures	:	Provide a local ventilation equipment since powder dust generates during processing.			
		Protective equipment					
		Protective mask		Necessary wearing			
		Protective glass	:	Necessary wearing			
		Protective glove Protective cloth		Necessary wearing Necessary wearing			
9.	Physical and	Appearance	:	Solid sheet			
	chemical	Melting point (°C)	:	60 to 100°C			
	properties	Specific gravity (23°C)	:	1.7 to 1.9			
10.	Stability and reactivity	Stability, reactivity	:	Chemically stable in ordinary temperatures			
11.	Toxicity	Skin corrosivity	:	None known			
	information	Irritating nature (skin,	:	None known			
	(including symptoms of	eyes) Sensitizing property		None known			
	humans and	Acute toxicity (including		None known			
	epidemiological information)	50% lethal amount, etc.)					
		Chronic toxicity		None known			
		Carcinogenic		None known			
		Mutagenesis(microorgani sm, chromosomal aberration)	:	None known			
		Reproductive toxicity	•	None known			
		Teratogenicity		None known			
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Item	Description							
12. Environmental impact information	Resolvability : None known Accumulation property : None known Fish toxicity : None known Others : None known							
13. Disposal considerations	Outsource disposal of waste products to industrial waste disposers. Follow relavant national and local regulations when disposing waste products.							
14. Transportation considerations	There is no safety problem in transportation. However, avoid moisture absorption, exposing to water and rough handling during transportation.							
15. Regulatory information	<ul> <li>Follow relevant national and local regulations for processing our product.</li> <li>Ensure the environment for processing this material in compliance with federal requirements and ensure conformity to local regulations.</li> <li>Processing this product is followed by the competent regulations in an applicable country or region.</li> </ul>							
16. Other information	The product handled in this document is not categorized as "chemical product", we're not legally required to provide customers with the SDS documents. This document contains the general information needed for keeping safe working environment for customer's reference, and is supposed to provide to customers upon individual request.  As original chemical structure of raw materials have already extinguished by polymerization, it shall not be deemed as an exposure of raw materials even if the dust of cured dielectric layer is appeared in customer's process.  However, please be advised that customer has responsibility to secure an safe working environment by installing the ventilation equipment as described in Article 8 of this document. Any use of our product for an unordinary use or under unrecognized situation are not supposed. In such a case, customer will be responsible for taking the appropriate measure to secure the safe working environment.  As actual component contents vary according to the detailed specification of each multilayer materials., the table described in Article 3 in this document covers entire range of all of product specifications.  The description in this document is based on the information at the time of issuance or revision. Customers have to be advised that any part of information in this document may contain deviations from latest regulations or product specifications.  Cited references;  Chemical Risk Information Platform (NITE)  SDS (from source material suppliers) etc							