

Original edition : Aug 24, 2016

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## Product Information Sheet

Item	Description																		
1. Identification	Product category : Prepreg Product designation : R-1650M Company name : Panasonic Corporation, Automotive & Industrial Systems Company Location : 111,Azaishizuka,Koriyama,Fukushima 963-8556 Japan Department : Quality Assurance Koriyama Department, Quality Center : Telephone number : +81-24-944-2903 FAX number : +81-24-944-6086																		
2. Hazards identification	GHS classification : Not applicable to Classification Standard Hazard : Not applicable Hazardous property : Not applicable Environmental impact : Not applicable																		
3. Composition / information on ingredients	Classification (single product or composite) : Composite Ingredients and contained amount : <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 33%;">Ingredient</th> <th style="width: 33%;">CAS Number</th> <th style="width: 33%;">Contained amount (wt%)</th> </tr> </thead> <tbody> <tr> <td>Cured epoxy resin</td> <td>None</td> <td>20 to 50</td> </tr> <tr> <td>Inorganic filler</td> <td>Trade secret</td> <td>5 to 30</td> </tr> <tr> <td>Woven glass cloth</td> <td>65997-17-3</td> <td>20 to 65</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Total</td> <td>-</td> <td>100</td> </tr> </tbody> </table>	Ingredient	CAS Number	Contained amount (wt%)	Cured epoxy resin	None	20 to 50	Inorganic filler	Trade secret	5 to 30	Woven glass cloth	65997-17-3	20 to 65	-	-	-	Total	-	100
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4. First aid measures	If inhaled : When you inhaled fine powder generated during handling and processing, gargle with clean water and, as needed, seek medical advice.  In case of skin contact : When your skin is in contact with fine powder generated during handling and processing, wash your skin with a soap and clean water and, as needed, seek medical advice.  In case of eye contact : When your eyes are in contact with fine powder generated during handling and processing, never rub your eyes by hand and wash them with clean water immediately and, as needed, seek medical advice.  If swallowed : When you inhaled fine powder generated during handling and processing, gargle with clean water and, as needed, seek medical advice.																		
5. Fire fighting measures	Fire extinguishing method : Battle the fires from the windward side to avoid inhalation of toxic gas. Wear respiratory protection equipment depending on the situation.  Extinguishant : Use extinguishants such as water, powder, foams, carbon dioxide although nothing specified.																		

Item	Description
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 and protection measures	Control concentration : Not applicable Allowable concentration Japan Society for Occupational Health : The Japan Society for Occupational Health : Class 3 dusts(Inorganic and organic dusts other than Class 1 and 2); Respirable dust 2mg/m <sup>3</sup> , Total dust 8mg/m <sup>3</sup>  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 : Necessary wearing Protective cloth : Necessary wearing
9. Physical and chemical properties	Appearance : Solid sheet Melting point (°C) : 60 to 100°C Specific gravity (23°C) : 1.6 to 2.0
10. Stability and reactivity	Stability, reactivity : Chemically stable in ordinary temperatures
11. Toxicity information (including symptoms of humans and epidemiological information)	Skin corrosivity : None known Irritating nature (skin, eyes) : None known Sensitizing property : None known Acute toxicity (including 50% lethal amount, etc.) : None known  Chronic toxicity : None known Carcinogenic : None known Mutagenesis(microorganism, chromosomal aberration) : None known Reproductive toxicity : None known Teratogenicity : None known

