

# MATERIAL SAFETY DATA SHEET

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## 1. Manufacturer Information:

Product name : DIANIUM MS-9002  
Company : Mitsubishi Plastics, Inc.  
Address : Misubishi Jushi Bldg., 1-2-2 Nihonbashihongokucho,  
Chuo-ku, Tokyo 103-0021, Japan  
Department in charge : Electronics & Industrial Film Department  
Tel. : +81-3- 3279-3042  
Fax. : +81-3-3279-6677  
Mail address : mpi7041@cc.mpi.co.jp  
Emergency phone No. : +81-3- 3279-3042  
Recommended and restriction in use  
: Flame Retardant Modified PPE Sheet for electrical insulation

Serial No. 729-002

Revision : July 30, 2010

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## 2. Summary of hazardous and toxicity

Name of classification : Not applicable  
Physical and chemical hazards : Not applicable  
Adverse human health effects : Not applicable  
Ecological effect : Not applicable

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## 3. Composition and ingredient

Single or mixture : Mixture  
Chemical name : poly (2,6-dimethyl- phenylene-ether)  
Official gazette serial No. ( Chemical Substances Control Law ) : ( 7 ) - 1 2 4 1  
Official gazette serial No. ( Workers' safety and Health Law )  
: Carbon black (Serial No.130)

### Ingredient & content:

Ingredient:	Content	CAS No.
1. poly (2,6-dimethyl- phenylene-ether)		25134-01-4
2. highimpact polystyrene		9003-55-8
1 + 2	80%以上	
3. triphenylphosphate	18%以下	115-86-6
4. phosphate ester flame retardant	2%以下	—

Chemical formula

- poly (2,6-dimethyl- phenylene-ether)  
 $[C_6H_2(CH_3)_2O]_n$
- highimpact polystyrene  
 $-[CH_2-CH(C_6H_5)]_n-$

3. —

4. —

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#### 4. First aid measures:

Eye contact : Ordinary, flush eyes immediately with clean and plenty of water and ask for medical help, if he has some residue. In the case of the molten matter, cool and rinse with clean water at least 15 minutes. Have the victim remove contact lenses of he is wearing them, and take medical treatment.

Skin contact : Ordinary, flush with water and a soap. In the case of the molten matter, cool with clean water immediately. If some of the resin is stuck to the skin, do not remove it.

Ingestion : Vomit as soon as possible. Ask for medical help if he has heavy symptoms.

Inhalation : Remove the victim from the contamination immediately to fresh air and keep him quiet. If he doesn't feel good, take medical treatment.

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#### 5. Fire fighting

Extinguishing method : Use the same fire fighting procedures as for general fire. Carbon dioxide, Toxic gases or soot will form upon combustion.

Extinguishing media : In the case of the fire, use water, water spray, foam, dry chemical powder extinguisher, Carbon dioxide

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#### 6. Accidental release measures

Sweep up with a vacuum cleaner or a brush.

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#### 7. Caution upon handling and storage

Handling : (1) Keep the working area tidy. Don't use the fire without reason.  
(2) While molding, decomposed products, low molecular weight products will form upon combustion. So, use with local exhaust ventilation.

Storage : (1) Avoid direct sunshine and fire source.  
(2) Prevent cargo from breaking loose and fall.

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## 8. Exposure limitation

Concentration limitation	: Not specified.
Engineering measures	: In the event of molding, use with local exhaust ventilation.
Respiratory protection	: Filter respirator is useful.
Protective glasses	: Goggle with side-seal is useful
Protective gloves	: Not to burn the hands, handling a molten resin with heat-resistant gloves.
Protective clothes	: Not to burn the hands, wearing a long length shirts.

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## 9. Physical & Chemical properties:

Appearance	: Solid (Sheets)
Boiling point	: Not applicable
Vapor pressure	: Not soluble
Volatile liquids	: None
Melting point	: 210°C
Density	: 1.09
Solubility in organic solvents	: Not soluble

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## 10. Hazards identification (Stability & Reactivity)

Flash point	: None
Autoignition temperature	: 400°C
Explosion limit	: None
Flammability:	
Spontaneous combustibility	: None
Reactivity with water	: None
Oxidizibility	: None
Self-reactivity, explosive	: None
Stability, reactivity	: Stable at ambient temperature and pressure.

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## 11. Toxicological information

Skin irritant properties	: No knowledge
Corrosive properties (skin and eyes)	: No knowledge
Allergenic and sensitizing effects	: No knowledge
Acute toxicity	: No knowledge
Sub-chronic toxicity	: No knowledge
Chronic toxicity	: No knowledge
Carcinogenic effects	: No knowledge
Mutagenic effects	: No knowledge
Effects on the reproductive system	: No knowledge

Teratogenic effects

: No knowledge

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12. Ecological information

Biodegradability : None

Bioaccumulation : None

Fish toxicity : None

Other information on eco-toxicity : None

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13. Caution upon disposal

The method of release, disposal shall be in accordance with “Law regarding the disposal and cleaning of waste material” or applicable laws and regulation of local government..

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14. Caution upon transportation

Avoid direct sunshine, water and abrupt temperature change on the transportation. Prevent cargo from breaking the packing bag or box and breaking loose and fall.

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15. Applicable law

(1) “Fire Fighting Law”: Designated combustible material, Resin

(2) “Law regarding the disposal and cleaning of waste material”: Industrial waste, waste plastics.

(3) Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (PRTR Law):

- triphenylphosphate ; Class I Designated Chemical Substance, Cabinet Order No.461  
(Applicable from October 1, 2009)
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16. Utilization of above information

The above description has been prepared based on the latest data available. But, the physical properties, hazardous and toxicological information are not guarantee data. The cautions are mentioned for the case of normal handing. In the case of special handling, please apply safety precaution in consideration of application and method of using.

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