

MATERIAL SAFETY DATA SHEET

1. Manufacturer Information:

Product name : KEIJU (Multiple membrane)
Company : Mitsubishi Plastics, Inc.
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Chuo-ku, Tokyo 103-0021, Japan
Department in charge : Electronics & Industrial Film Department
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Mail address : mpi7041@cc.mpi.co.jp
Emergency phone No. : +81-3- 3279-3042
Recommended and restriction in use
: Silicone rubber, biaxially oriented Polyethylene terephthalate film

Serial No. 733-049

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2. Summary of hazardous and toxicity

Name of classification : None
Hazard : Combustible
Eye contact : Slightly irritating to eye
Skin contact : Slightly irritating to skin
Inhalation : Low risk of inhalation
Ingestion : Slightly harmful
Other information : None

3. Composition and ingredient

Single or mixture : Mixture
Official gazette serial No. (Chemical Substances Control Law): (7)-1022 (PET)
Official gazette serial No. (Workers' safety and Health Law): 312 (Silica)
Ingredient:
Ingredient CAS No.
Silicone rubber
(Cross-linked polyalkenyl siloxane Silica,
Small amount of additives)
Polyethylene terephthalate (PET) 25038-59-9

4. First aid measures

Eye contact : Ordinary, flush eyes immediately with clean and plenty of water and ask for medical help.

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| Skin contact | : Ordinary, flush with water and soap. |
| Inhalation | : Not Applicable |
| Ingestion | : Take medical treatment as soon as possible . |

5. Fire fighting

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| Extinguishing method | : Shut off to fire source, and extinguish using the following media. Toxic gases (formaldehyde, etc.) and fine powder of silica may be formed at the time of combustion. Firefighters should wear proper breathing apparatus. |
| Extinguishing media | : Dry chemical powder, foam, and carbon dioxide |

6. Accidental release measures

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| Precaution to a human being | : As this is solid having certain shape, not applicable. |
| Precaution to environment | : All leakage of the product shall be promptly collected, because it is persistent under natural environment. |

7. Caution upon handling and storage

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| Handling | : Keep away from fire source. After using these materials, wash hands and face with plenty of water. |
| Storage | : Avoid direct sunshine. Store in dark cool indoor. |

8. Exposure protection measures

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| Concentration limitation | : Not specified |
| Allowable concentration: | |
| Japan Industrial Hygiene 1996 | : Not specified |
| ACGIH 1997 | : Not specified |
| Facilities measures | : Not required |
| Respiratory protection | : Not required |
| Protective glasses | : Goggle with side-seal is useful |
| Protective gloves | : Wear protective gloves during handling work piece having sharp edges. |
| Protective clothes | : Not required |

9. Physical & Chemical properties

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|------------------|-------------------|
| Appearance | : Black |
| Boiling point | : Not applicable |
| Vapor pressure | : Not applicable |
| Volatile liquids | : None |
| Melting | : PET 255°C~S60°C |

Initial distillation temperature: Not applicable

Solubility (Water) : Not soluble

10. Hazards identification (Stability & Reactivity)

Flash point : Not applicable

Ignition temperature : Not applicable

Explosion limit : None

Flammability : Combustible

Spontaneous combustibility (Reactivity with water) : None

Oxidizability : None

Self-reactivity, explosive : None

Dust explosion : None

Stability, reactivity : Stable at ambient temperature. But decomposition will occur with strong acid and alkaline.

11. Toxicological information (Affection to human being including epidemiology)

Skin corrosiveness : No knowledge

Irritant (skin, eye) : No knowledge

Allergenic and sensitizing effects: No knowledge

Acute toxicity (including 50% fatal dosage): No knowledge

Sub-acute toxicity : No knowledge

Chronic toxicity : No knowledge

Carcinogenic effects : No knowledge

Mutagenic effects (microbial, chromosome abnormalities): No knowledge

Reproductive toxicity : No knowledge

Teratogenic effects : No knowledge

Others (Toxic gases may form if the material contact with water): None

12. Ecological information

Biodegradability : None

Bioaccumulation : None

Fish toxicity : None

Other information on eco-toxicity : Do not discharging into drains or aquatic environment to avoid the ingestion of animals living in the ocean and the birds.

13. Caution upon disposal

Dispose of by incinerating with authorized incinerator for waste material in accordance with law or by land-fill. Upon incineration, as silica dust may be formed, wear dust mask as necessary.

14. Caution upon transportation

Prevent product from breaking, handle with care. Avoid moisture, water, high temperature and direct sunshine.

15. Important Safeguards

Absolutely do not implant, insert in the body. Never use for any applications for which the material will be left in the body. In case of using for medical devices, foodstuff, and other special purpose applications, please test and make certain that you can do so safely.

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.
