

MATERIAL SAFETY DATA SHEET

1. Manufacturer Information:

Product name : DIALAMY FC Type K
Company : Mitsubishi Plastics, Inc.
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Recommended and restriction in use : FFC reinforcements

Serial No. 737-005

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2. Summary of hazardous and toxicity

Name of classification : Not applicable
Physical and chemical hazards : As risk of combustion by flame on fire, and heating, treat the material with caution.
May cause get scaled.
Vapors generated from molten product may irritate eyes, nose and throat

3. Composition and ingredient

Single or mixture : Mixture(Molded laminate, PET and adhesive-backed resin)
Official gazette serial No. (Chemical Substance Review Law)
: Polyethylene tere-phthalate (7-1022)

Ingredient & content:

Ingredient:	Content	CAS No.
Polyethylene tere-phthalate	Approximately 87%,	25038-59-9
Polyester base hot melt adhesive	Approximately 13%,	

Chemical formula : Polyethylene tere-phthalate
 $\text{HO}(\text{COC}_6\text{H}_4\text{COOCH}_2\text{CH}_2\text{O})_n\text{H}$

4. First aid measures:

Eye contact : Immediately wash with plenty of fresh water. If necessary, ask for medical help.
Skin contact : With plenty of clean water, remove warmer-temperature

chemical and molten chemical from contact with the victim's skin as quickly as possible

Ingestion : Try to get the victim to vomit. Then ask for medical help.

Inhalation of burning gas : Remove the victim from the contaminated immediately to fresh air. If cough or suffocation occur, refer to medical attention.

5. Fire fighting

Extinguishing method : Shut off the fire source and extinguish with plenty of water and extinguishing media. As fires involving this material produce sooty smoke and toxic gases, firefighters should wear proper protective gears.

Extinguishing media : Water, CO₂, dry chemical, foam

Other : Toxic gases (carbon dioxide, carbon monoxide, hydrogen bromide) will form upon combustion. Avoid breathe the gas, use adequate ventilation and wear suitable respiratory equipment.

6. Accidental release measures

Sweep up and clean the floor contaminated by the material to prevent the slip. Prevent spill to outside and entering sewers or waterway not to affect the birds and fishes.

7. Caution upon handling and storage

Handling : Avoid contact with water, heat and flame.
Protection: Gloves, safety goggles
Wash hand and face after the work.

Storage : Avoiding direct sunshine and moisture, store in well-ventilated cool location. Prevent cargo breaks loose.

8. Exposure protection measures

Concentration limit (Ministry of Labor standard) : Not specified.

Allowable concentration

Japan Industrial Hygiene : Not specified.

ACGHI : Not specified

Facilities measures : If gas is generated by decomposition during the forming, provide local exhaust ventilation facility.

Protection gears:

Respiratory protection : Not required for handling at ambient temperature.

Protection glasses : Spectacles and goggles type glasses.

Protective gloves : Rubber gloves
Protective clothes : Not required for handling at ambient temperature.

9. Physical & Chemical properties:

Appearance : Light Blue translucent, Transparent
Melting point : 255°C~260°C (PET)
Density : 1.25~1.40 (at room temperature)
Solubility (Water) : Not soluble
Volatility : None

10. Hazards identification (Stability & Reactivity)

Flash point : None
Ignition temperature : None
Explosion limit : None
Flammability : May form CO,CO₂,hydrocarbon, and their oxidation products
Stability/reactivity : Stable at normal handling

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

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

In principle, the waste must be disposed of by incineration or landfill in conformity with law about pollution control. Dispose of in conformity with “Law regarding the disposal and cleaning of waste material” entrusting authorized waste disposal specialist or local government agency.

14. Caution upon transportation

Care should be taken to prevent the products from breaking. Avoid moisture, high temperature and direct sunshine. Protect the packing bag or box from cargo loosing.

15. Applicable law

Fire protection law : Designated combustible material= Synthetic resin

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.
