

MATERIAL SAFETY DATA SHEET

1. Manufacturer Information:

Product name : DIAFIX PG-CHI,PG-WHI
Company : Mitsubishi Plastics, Inc.
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Chuo-ku, Tokyo 103-0021, Japan
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Recommended and restriction in use : Cards

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2. Summary of hazardous and toxicity

GHS classification : Not applicable to the classification criteria
Toxicity and hazard : None
Environmental influence : Unknown at present
Caution : Injury may be caused by the edge of sheet or the edge is broken
and scattered. Skin burn may be caused if directly touches molten
product.
Combustibility : Combustible

3. Composition and ingredient

Single or mixture : Mixture (single sheet shape formed product)

Official gazette serial No. (Chemical Substance Review Law)

Polyester copolymer Proprietary
Acrylic-based impact modifiers (1) (6)-186
Acrylic-based impact modifiers (2) Proprietary
Titanium oxide (1)-558
Wax Proprietary

Ingredient & content:

Ingredient:	Content	CAS No.
PG-CHI		
Polyester copolymer	90-96 %	Proprietary
Acrylic-based impact modifiers (1)	4-10%	7136-15-8
Wax	<1%	Proprietary

PG-WHI

Polyester copolymer	80-86 %	Proprietary
Acrylic-based impact modifiers (2)	4-10 %	143106-82-5
White pigment(Titanium oxide)	7-12%	13463-67-7
Wax	<1%	Proprietary

4. First aid measures:

Eye contact	: As eye may be irritated or cornea would be injured by rubbing, get eye doctors' attention after immediately washing with clean water.
Skin contact	: If skin burn is caused, cool down as soon as possible, wash thoroughly with soap water if condensate of gas evolved from the molten product adheres.
Inhalation	: When and if felt sickening by inhaling the gas generated from molten product, remove to a fresh air area and if no improvement is realized, ask for medical help.
Ingestion	: When a piece of broken product is swallowed, no vomit is necessary as it is not absorbed by digestive ailment, ask for medical help when and if a colic symptoms occurs.

5. Fire fighting

Extinguishing method	: Extinguish with water jet or powder extinguisher with wearing protective gears such as self-sustaining aspirator, fire-proof clothes. Black fume and irritating gas (carbon dioxide, carbon monoxide And so on) may generate upon combustion. So use adequate ventilation and wear suitable respiratory protective equipment so as to avoid breathing the gas.
Generated by combustion	: The powder may form explosive dust suspension.

6. Accidental release measures

Precaution to human being	: As this is a solid matter having certain shape, not applicable.
Precaution to environment	: Prevent the overflow product (such as cut dust) into river or outdoor causing adverse effect on the environment.

7. Caution upon handling and storage

Handling	: Since the packaged products are heavy, protect hand and foot while handling and use proper gears for preventing a lumbago. Care should be taken not to be injured by the edge of sheet.
Precaution of fire/explosion	: Keep away from lighting sources and oxidation reagent. Avoid the generation of dust and its accumulation. Never use for electrical insulation. Store in cool, dark and well ventilated indoor area

avoiding abrupt temperature change and away from heat or ignition source.

8. Exposure protection measures

Controlled concentration	: Not specified
Working facilities required	:For hot press working area, a normal ventilation facility is required. If ventilation is inadequate, install a partial ventilation with close area or use aspiration gear.
Protective gears	:Protective gear (such as safety goggle, well insulated gloves) are required for hot press in order to avoid direct contact of molten product with eye or skin. In inadequate ventilation condition, an approved protective mask (for vapor) is required

9. Physical & Chemical properties:

Appearance	: Solid (sheet shape formed product)
Color	: Natural (PG-CHI) White (PG-WHI)
Odor	: Minimal
Specific gravity	: 1.3 (PG-CHI), 1.4(PG-WHI)
Solubility (water)	:None
Other	: Gradually soften at 60 ° C

10. Hazards identification (Stability & Reactivity)

Flash point	: Flammability
Self ignition:	
Temperature of self ignition	:454□ (information value of single polyester copolymer)
Explosion concentration limit:	
Upper limit	: No knowledge
Lower limit	: No knowledge
Stability/reactivity	: May react with strong oxidation reagent.
Self-polymerization	: None
Sensitivity to impact	: None

11. Toxicological information

Influence of exposure Inhalation	:Low hazard in handling in normal production and logistic processes by workers having adequate training.
Ingestion	:Although hazard caused by ingestion is low, bronchial may be injured if piece having acute corner is swallowed.
Contact	: May be burnt if contact with molten product.

Eye : Low hazard in handling in normal production and logistic processes by workers having adequate training

12. Ecological information

Biodegradability	: None
Bioaccumulation	: None
Fish toxicity	: None
Other information on eco-toxicity	: None

13. Caution upon disposal

The method of release, disposal or treatment shall be in accordance with applicable laws and regulation of national and local government.

14. Caution upon transportation

Same as handling and storage method

15. Applicable law

Fire Fighting Law	: Designated combustible material (covered if over 3,000 kgs).
Dangerous article	: Not applicable
Waste Material Disposal Law	: Waste plastics

16. Other information

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.
