

SHINHANTEK #55-1 Namsan-Ri, Paengseong-Eup, Pyeongtaek-City Kyungki-Do, KOREA TEL : 031)691-0100 FAX : 031)691-0368	<u>Material Safety Data Sheet</u>	Serial No	MSDS - PMMA - 01
		Printing /Data	2004. 8. 24
	PMMA SHEET (Poly Methyl Methacrylate)	Reviewed item	2007 . 8 . 30
		Page	1/4

1. Identification of Substance

- * Product Name : PMMA
- * Chemical Name : Poly MethylMethacrylate Sheet
- * Chemical Family : Thermoplastic Acrylic Polymers
- * Manufacturer Address : #55-1 Namsan-Ri, Paengseong-Eup, Pyeongtaek-City, Kyungki-Do, KOREA
- * Make : Shinhantek. co., ltd/ Tech & Res Team/ W. S. Oh

2. Composition

<u>Chemical Name</u>	<u>Unothers Name</u>	<u>CAS No</u>	<u>Contents(%)</u>
Poly Methyl Methacrylate	Acrylic Polymers	9011 - 14 - 7	99.5 %

3. Hazards Identification

- * Emergency State : No Data
- * Health Hazard Data

Eye : No toxic symptoms reported. Polymer particle may act as foreign body.

Skin : No toxic symptoms reported. Molten material has the pontential to cause thermal burn.

Inhalation : No toxic symptoms reported. Pellets are not considered an inhalation hazard.

Ingestion : If signigicant quantity has been swallowde, give a glass of water and induce vomiting
Seek medical attention.

4. Emergency and First Aid Measures

- * Emergency and First Aid Measures

Eye(Contact) : Flush with plenty of water. Seek medical attention if symptoms persist.

Skin(Contact) : If molten polymer contact skin, cool rapidly with cold water.

Inhalation : Remove to fresh air.

Ingestion : If signigicant quantity has been swallowed, give a glass of water and induce vomiting Seek medical attention.

SHINHANTEK #55-1 Namsan-Ri, Paengseong-Eup, Pyeongtaek-City Kyungki-Do, KOREA TEL : 031)691-0100 FAX : 031)691-0368	Material Safety Data Sheet	Serial No	MSDS - PMMA - 01
		Printing /Data	2004. 8. 24
	PMMA SHEET (Poly Methyl Methacrylate)	Reviewed item	2007 . 8 . 30
		Page	2/4

5. Fire and Explosion Hazard Data

- * Flash Point(method used) : >280 °C (536°F)
- * Flammable Limits : No Data
- * Extinguishing Media : Dry Chemical , CO₂ , FORM or water spray
- * Special Fire Fighting Procedure
Water and/or dry chemical should not be used on machinery. Self-contained breathing apparatus and personal protective
- * Unusual Fire and Explosion Hazards
Fire procedure irritaing gases and dense smoke
 - 1) Addition of compounds containing phosphorus and halogen
 - 2) Combination with polyvinyl chloride to form an alloy

6. Spill or Leak Measures

- * In the case of spillage, please immediately rem ove from the floor or aisle to avoid a slipping hazard
- * Waste disposal method
Transfer to an approved disposal area in accordance with regulation on industrial waste disposal

7. Handling and Storage

- * Handling
Inform ation for safe handling
 - Sufficient ventilation is necessary
 - Lifting of heavy bags can damage to your spine if not done correctly
 - Care should be thken avoid accidents when loading, unloading or stacking the product
- * Storage
 - Requirements to be mat by storerooms and containers
 - Refrain from using fire at a handling or storing place
 - Keep away from sunlight, water, and moisture and store at an ambient temperature

SHINHANTEK #55-1 Namsan-Ri, Paengseong-Eup, Pyeongtaek-City Kyungki-Do, KOREA TEL : 031)691-0100 FAX : 031)691-0368	Material Safety Data Sheet	Serial No	MSDS - PMMA - 01	
		Printing /Data	2004. 8. 24	
	PMMA SHEET (Poly Methyl Methacrylate)		Reviewed item	2007 . 8 . 30
			Page	3/4

8. Exposure controls and personal protection

- * Protective Gloves
Recommended during melt processing
- * Eye Protection
Safety glasses recommended

9. Physical and chemical properties

- | | |
|----------------------------------|-----------------------------------|
| * Appearance : Solid Pellet Bead | * Odor : None |
| * PH : Not applicable | * Solubility in water : Insoluble |
| * Specific gravity : 1.19 | * Melting Point : No data |
| * Flash Point : No data | * Viscosity : Pertinent data nil |
| * Transmittance : Over 90% | * Haze : Under 1.0% |

10. Stability and reactivity

- * Stability : Stable
- * Incompatibility(Material to avoid) : Pertinent data nil
- * Hazard Decomposition Product
Major : CO₂, H₂O, CO

11. Toxicological inform ation

- * Precautious to be taken in handling and storing. Store in cool drt place
- * LD50 : No data
- * Eye : data
- * LC50 : No data
- * Skin : Pertinent data nil

SHINHANTEK #55-1 Namsan-Ri, Paengseong-Eup, Pyeongtaek-City Kyungki-Do, KOREA TEL : 031)691-0100 FAX : 031)691-0368	Material Safety Data Sheet	Serial No	MSDS - PMMA - 01
		Printing /Data	2004. 8. 24
	PMMA SHEET (Poly Methyl Methacrylate)	Reviewed item	2007 . 8 . 30
		Page	4/4

12. Ecological information

* Ecological information : No data

13. Disposal consideration

* Recommendation : Must be specially treated under adherence to official regulations.

14. Transport information

* Land transport : No data

Not dangerous according to the above specifications

15. Regulatory information

* Regulatory information : No data