

## Material Safety Data Sheet (SDS)

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

Product Name	High Impact Polystyrene
CAS No.	9003-55-8
Manufacturer	LG Polymers India Pvt. Ltd. RR Venkatapuram, Visakhapatnam - 530029, India
Telephone	+91 (0)891 2520455
Telefax	+91 (0)891 2520338
Recommended use	Molding / Extrusion* Applications

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous substances	Not classified as Hazardous material
Adverse Human Health effects	None
Environmental effects	None
Physical and Chemical Hazards	None

### 3. HAZARDS IDENTIFICATION

Most important hazards	Practically non-harmful
Skin contact	Thermal decomposition gives vapours which could be irritating to the skin, the mucous membrane
Eye contact	Non irritating to the eyes. Heated Polymer-Eye Contact can cause serious thermal burns. Vapours formed when polymer is heated may be irritating to the eye
Inhalation	Inhalation of thermal decomposition products: remove to fresh air, consult a doctor.
Ingestion	In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice, if necessary
Environmental Properties	Don't discharge into sewers or in environment. To be disposed in accordance to local appropriate legislation.

#### 4. FIRST AID MEASURES

##### Eye contact

Flash with plenty of water. Remove eye lenses and continue flashing. Seek medical attention, if necessary  
An eye wash fountain, safety shower and general washing facility must be available to work area.

##### Skin contact

In case of burns by hot molten resin, wash with cold water immediately & abundantly for 10 minutes. Do not remove the resin, but, later, clean it from the skin by means of mineral oil, consult a doctor

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#### 5. FIRE-FIGHTING MEASURES

##### Extinguishing Media

Water spray, Foam, Dry chemical powder, CO<sub>2</sub>, fog or foam. Sand or soil may be used for small fires only

##### Special Fire-Fighting equipment

Pressure self-contained breathing apparatus & fire fighting clothing (helmet, boots, gloves)

##### Fire and Explosion Hazards

None

##### Other information

Handling may produce flammable explosive dusts ventilate the area and clean accumulate dusts

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#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions

Collect spilled material and protect people from slipping hazards. After cleaning it can be used.

##### Environmental precautions

No special environmental precautions required. Don't allow any potentially contaminated water with pellets to enter into sewer or drain.

##### Methods for cleaning up

Recovery if not contaminated or disposal

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#### 7. HANDLING & STORAGE

##### Handling

Avoid temperatures 300 °C or above. Use filters in pneumatic conveying lines to reduce rust.

Keep away from fire and sources of ignition. Maintain good housekeeping standards to prevent accumulation of dust. Avoid flame, sparks and static.

##### Storage

Keep the materials in a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Store in fire inhibited area

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit (s)	No occupational exposure limit assigned
Ventilation	Necessary to exclude dust, fumes and gases
Engineering measures	If user operation generates dust, fume, use ventilation to keep exposure to keep air borne contaminants below exposure limits.
Respiratory protection	Ventilation is normally required when handling at higher temperatures. Wear appropriate respirator when ventilation is inadequate
Hand protection	Thermally insulated gloves are recommended when handling hot material.
Eye protection	Use Safety glasses, goggles or face shield to protect against splashing.
Skin & Body protection	coveralls should be worn. Wash hands before eating, drinking.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Solid pellets
Odor	Odorless
Color	Opaque (Natural)
Boiling point/range	Not applicable
Melting Point	85-105 °C
Flash point	Not applicable
Vapor pressure	Not applicable
Relative density	1.03 g/cc
Water solubility	Insoluble.
Viscosity	Not applicable
Melt Index	5 - 10 gms/10 min

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## 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Conditions to avoid	Extremes of temperature and direct sunlight
Materials to avoid	Strong oxidizing agents, Water
Hazardous	Decomposition products: Carbon monoxide, Carbon dioxide, dense smoke and hydrocarbons.
Reactivity with water	No

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## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity:

LD 50, oral rat (mg.kg-1)	Non Toxic
LD50, oral, mouse (mg.kg-1)	Non Toxic
LD50, dermal (mg.kg-1)	Non Toxic
Sub chronic – chronic toxicity	No relevant information found
Sensibilization	No relevant information found
Carcinogenicity	No relevant information found
Reproductive effects	No relevant information found
Human experience	No relevant information found

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## 12. ECOLOGICAL INFORMATION

For the safety of Ocean species and birds, disposal of the waste to the Ocean and water courses is inhibited

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## 13. DISPOSAL CONSIDERATIONS

Do not discharge into sewers or in environment.

Disposal must be done as territory and /or local government regulations. It can be recycled.

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## 14. TRANSPORT INFORMATION

As per IATA guidelines not regulated.

## 15. REGULATORY INFORMATION

Hazardous label(s) No regularity known  
Safety & Risk phrases This product is not classified as a dangerous good.

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## 16. OTHER INFORMATION

Suitable information on safety in handling, storage and conversion of the product should be given to employees based on all the existing information.

*The information contained in this Safety Data Sheet (SDS) is believed by LG Polymers India Pvt.Ltd., to be accurate on the date issued.*

*The design and Characteristics of the product manufactured out of LGPI material are beyond our control & expertise, therefore, LGPI shall not own the responsibility for any consequential damage incurred by the Purchaser.*