



# Material Safety Data Sheet

## Polystyrene

### Section 1. Chemical product and company identification

<b>Identification</b>	<b>Polystyrene</b>
Product Name:	Polystyrene (general purpose) 9003-53-6 100%
<b>Company Identification:</b>	<b>Hazel Mercantile Limited</b>
<b>Company Identification: (INDIA)</b>	701, Embassy Centre , Nariman Point , Mumbai – 400 021
<b>For information in the INDIA, call:</b>	+91-22-2282 4444 (50 Lines)

### Section 2. Composition and information on ingredients

Name	Polystyrene
Cas #	9003-53-6
% by weight	99
Exposure limits	Threshold limit not available
Trade name	Gpps
Synonym	Crystal polystyrene
Chemical family	Polymer

### Section 3. Hazards identification

Physical state and appearance	Solid. Transparent pellets
Emergency overview	Irritating vapors to respiratory system and eyes may form when polymer is processed at high temperatures. Molten or heated material in skin contact can cause severe burns.
Routes of entry for hot material	Skin contact. Eye contact, inhalation
Eyes	This product is not known to cause eye irritation. However, as with any chemical, some sensitive individuals may experience eye irritation upon contact. Heated polymer: eye contact can cause serious thermal burns vapors formed when polymer is heated may be irritating to the eye
Skin	No known acute effects of this product resulting from skin contact at room temperature heated polymer: skin contact can cause serious thermal burns
Inhalation	Negligible hazard at room temperature. Nuisance dusts can be irritating to the upper respiratory tract. Irritating vapors may form when the polymer is processed at high temperatures.
Ingestion	No effects are expected for ingestion of small amounts. May be a choking hazard
Potential chronic health carcinogenic effects	Classified none by ntp, none by osha
Mutagenic effects	Not available
Teratogenic effects	Not available
Medical conditions	There is no known effect from chronic exposure to this product. Repeated or prolonged aggravated by exposure is not known to aggravate medical condition
Overexposure	Overexposure not available



### Section 4. First aid measures

Eye contact	Rinse with water for a few minutes. Seek medical attention if necessary
Skin contact polymer	No known effect on skin contact, rinse with water for few minutes. Heated polymer: for serious burns from heated polymer, get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water.
Inhalation	Allow the victim to rest in a well ventilated area
Ingestion	No first aid procedures are needed ; notes to physician not available

### Section 5. Fire fighting measures

Flammability	May be combustible at high temperature
Auto-ignition temperature	427°C
Flash points	Not available
Flammable limits	Not available
Products of combustion	Carbon oxides (co, co2) and soot
Fire hazards in presence of various materials	No specific information
Fire fighting media	Small fire: use dry chemicals, co2, water spray or foam. Large fire: use water spray, fog or foam. Do not use water jet
Protective clothing (fire)	Wear approved self-contained breathing apparatus or equivalent and full protective gear.
Special remarks on fire Hazards	Fire may produce irritating gases and dense smoke. Flowing material may produce static discharge, igniting dust accumulations.
Special remarks on Explosion hazards	Processing or material handling equipment may generate dust of sufficiently small particle size, that when suspended in air may be explosive

### Section 6. Accidental release measures

Small spill and leak	Pellets on the floor could present a serious slipping problem. Good housekeeping must be maintained at all times to avoid this hazard. Pellets on the floor could present a serious slipping problem.
Large spill and leak	Use a shovel to put the material into a convenient waste disposal container. Do not allow any Potentially contaminated water with pellets to enter any waterway, sewer or drain.

### Section 7. Handling and storage

#### Handling:

Avoid temperatures of 600°F (316°C) or above. Handling of plastic may form nuisance dust. Protect personnel. Pneumatic material handling and processing equipment may generate dust of sufficiently small Particle size that, when suspended in air, may be explosive. Dust accumulations should be Controlled through a comprehensive dust control program that includes, but is not limited to, Source capture, inspection and repair of leaking equipment, routine housekeeping and Employee training in hazards

#### Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents



### Section 8. Exposure controls/personal protection

Engineering controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep Airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal protection Eyes	Safety glasses
Body	Coveralls
Respiratory	Ventilation is normally required when handling this product at high temperatures. Wear appropriate respirator when ventilation is inadequate
Hands	Thermally insulated gloves required when handling hot material
Feet	Safety slip proof shoes in areas where spills or leaks can occur

Consult local authorities for acceptable exposure limits.

### Section 9. Physical and chemical properties

Physical state and appearance	Solid. Transparent pellets
Ph (1% soln/water)	Not applicable
Boiling/condensation point	Not available
Melting/freezing point	>132°C
Critical temperature	Not available
Specific gravity	1.04 (water = 1)
Vapor pressure	Not available
Vapor density	Not available
Volatility	Negligible
Odor threshold	Not available
Evaporation rate	Not available
Voc	0 %
Viscosity	Not available
Ionicity (in water)	Not available
Dispersion properties	Not available
Solubility in water	Insoluble in water

### Section 10. Stability and reactivity

Stability and reactivity	The product is stable. Avoid temperatures of 600°F (316°C) or above
Conditions of instability	No additional remark
Incompatibility with various substances	Reactive with strong oxidizing agents.
Hazardous decomposition products	Hazardous decomposition products are carbon monoxide, carbon dioxide, dense smoke, and various hydrocarbons. Exposure of polystyrene to extremely high temperatures (600 deg f or higher) may cause partial decomposition. Chemicals that may be released include styrene Monomer, benzene, and other hydrocarbons
Hazardous polymerization	No



### Section 11. Toxicological information

Toxicity to animals	Ld50: not available. Lc50: not available
Chronic effects on humans	Carcinogenic effects: classified none by ntp, none by OSHA. 3 (not classifiable for human.)
Other toxic effects on humans	Not considered to be dangerous for humans according to our data base
Special remarks on toxicity to animals	No additional remark.
Special remarks on chronic effects on humans	No additional remark.
Special remarks on other Toxic effects on humans	No additional remark.

### Section 12. Ecological information

<b>Ecotoxicity :</b>	Not available.
<b>Bod5 and cod :</b>	Not available.
<b>Biodegradable/oeed :</b>	Not available

### Section 13. Disposal considerations

Transfer to an approved disposal area in accordance with federal, state, and local regulations. Consult your local or regional authorities.

### Section 14. Transport information (for bulk shipments, non-bulk shipments may differ)

DOT proper shipping name :	not applicable
UN number :	not applicable
Packing group :	not applicable
ADR/RID classification :	not controlled under ADR (Europe).
Not controlled under IMDA	
Not controlled under IATA	

### Section 15. Regulatory information

This product is not a "hazardous chemical" as defined by the osha
Specific state and local regulations should be consulted to determine if there are any additional requirements.
Clean air act (caa) 112 regulated toxic substances: no products were found.
International regulations
Whmis (canada) not controlled under whmis (canada).
Cepa dsl: polystyrene (general purpose)
Einecs not available.
Dscl (eec) not controlled under dscl (europe).
International lists no products were found.

### Section 16 - Other Information

<b>MSDS Creation Date:</b>	September 24, 2007
<b>Revision #0 Date</b>	

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