



## MATERIAL SAFETY DATA SHEET

F/C 009/HIPSS dt. 5-1-2010 Rev 1.5

Section 1: Identification of Product and Supplier	
Product Trade Name	Sangir <b>HIGH IMPACT POLYSTRENE (HIPS) Sheets</b>
Product Use	Disposables cutlery, Refrigeration Enclosures, ThermoFormed Articles, Automobile Body parts, Suitcase Inners Separators, Replace Designer Glass Sheets, Lighting Fixtures, Printing Industry, Printed Advertising Displays, Kiosks, POP displays, Models & Prototypes, Shelves, Picture frames.
Supplier	Sangir Plastics Pvt. Ltd. 3rd Floor, Mandhana Enclave, Near Canara Bank, Bangur Nagar, Goregaon West, Mumbai, Maharashtra, India. Postal Code: 400104. Tel.: +91 22 28717800 (30 lines) Fax.: +91 22 28741794 (fax) Email: sales@sangir.com
Emergency (24 Hours)	

Section 2: Hazards Identification	
Statement of Hazardous Nature	NON-HAZARDOUS PRODUCT NON-DANGEROUS GOODS
Poisons Schedule	Not listed.
Hazard Statements	None required.
Precautionary Statements	None required.
Other Hazards	Refer to Section 7 Handling and Storage for general precautions for use.

Section 3: Composition/Information on Ingredients					
Composition and Form	Manufactured sheets of various dimensions for purposes as described in Section 1.				
Chemical Composition	<table><thead><tr><th><u>Chemical Name/s</u></th><th><u>Proportion</u></th></tr></thead><tbody><tr><td>Polystyrene (Impact)</td><td>~ 100</td></tr></tbody></table>	<u>Chemical Name/s</u>	<u>Proportion</u>	Polystyrene (Impact)	~ 100
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<b>Section 4: First-Aid Measures</b>	
<b>Swallowed</b>	IF SWALLOWED, do NOT induce vomiting. Give water to drink. Get medical attention immediately. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
<b>Eye</b>	Inapplicable to the solid product except for mechanical injury. Dust/small particles from sawing or other mechanical process may affect eyes if not protected. Flush with copious quantities of water and treat symptomatically.
<b>Skin</b>	Inapplicable to the solid product except for mechanical injury. Flush with copious quantities of water and treat symptomatically. For serious burns from heated polymer, get medical attention.
<b>Inhaled</b>	Inapplicable to the solid product due to the physical size and dimensions of the products. If dust or vapors are inhaled, allow the victim to rest in a well-ventilated area.
<b>Notes to Physician</b>	Treat symptomatically.

<b>Section 5: Fire-fighting Measures</b>	
<b>Extinguishing Media</b>	Use water spray, carbon dioxide, foam or dry chemical.
<b>Fire Fighting</b>	Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use.
<b>Fire/Explosion Hazard</b>	Risks of explosion of the product in presence of mechanical impact: Not expected. Risks of explosion of the product in presence of static discharge: Possible. Risk of explosion from dust accumulation of this product is possible. Fire may produce irritating gases and dense smoke.
<b>Personal Protection</b>	Wear fully protective body suit with self-contained breathing apparatus (S.C.B.A.) to prevent contact with fumes and gases produced during combustion and appropriate gloves and footwear.

<b>Section 6: Accidental Release Measures</b>	
<b>Minor Spills</b>	Collect products and pile or secure safely. If necessary, isolate area to prevent damage to /destruction of products by vehicles etc. Broken parts may be sharp and eye protection and gloves are recommended. Pellets on the floor could present a serious slipping problem. Sweep, shovel, or vacuum material into clean containers.

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<b>Major Spills</b>	Isolate area as necessary to prevent further damage. Collect products and pile or secure safely. Broken product and parts may have sharp edges and eye protection and gloves are recommended.
<b>Contain spill</b>	Sweep or scoop up and remove to suitable container. Do not allow any potentially contaminated water with pellets to enter any waterway, sewer or drain. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

<b>Section 7: Handling and Storage</b>	
<b>Procedure for Handling</b>	Unpack piles of sheet and ensure that free stacks are adequately stocked. Do not climb on stacks. Normal safe practices should be employed when working with the material; a well ventilated area and the use of eye and protection, dust masks and gloves are recommended when sawing, grinding (with abrasive wheel) and handling. Avoid breathing processing fumes or vapors. Use only with adequate ventilation. Avoid prolonged contact with eyes, skin and clothing. Keep container tightly closed.
<b>Storage</b>	Store in appropriate areas (outside or in warehouse) in accordance with site safety requirements. Store in a cool, dry place. This material is not hazardous under normal storage conditions; however, material should be stored in closed containers, in a secure area to prevent container damage and subsequent spillage.

<b>Section 8: Exposure Controls / Personal Protection</b>	
<b>Engineering Controls</b>	Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposure. Dilution ventilation is acceptable, but local mechanical exhaust ventilation preferred, if practical, at sources of air contamination such as open process equipment.
<b>Personal Protection Eye</b>	Use good industrial practice to avoid eye contact. Where eye contact may be likely, wear chemical goggles and have eye flushing equipment available.

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<b>Hands/Feet</b>	Safety footwear and gloves. Wash hands and contaminated skin thoroughly after handling.
<b>Respiratory Protection</b>	Ventilation is normally required when handling this product at high temperatures. Wear appropriate respirator when ventilation is inadequate.

### Section 9: Physical and Chemical Properties

<b>Appearance</b>	Plastic sheets of thickness from 0.1mm to 6 mm of various sizes. Colour: natural Embossing / designs available on request.
Odour	Nil
pH:	Nil effect, insoluble
Melting point	>132.22°C
Initial boiling point and range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Upper/lower flammability	Not applicable
Vapour pressure	Negligible
Vapour density	Not applicable
Solubility	Insoluble
Partition coefficient	

### Section 10: Chemical Stability and Reactivity

<b>Incompatible materials</b>	Stable under normal conditions of storage and use. Avoid Temperatures of 316°C or above. Keep away from heat and flame. Reactive with strong oxidizing agents.
<b>Hazardous decomposition products</b>	Hazardous decomposition products are carbon monoxide, carbon dioxide, dense smoke, and various hydrocarbons. Exposure of polystyrene to extremely high temperatures (316°C) or higher may cause partial decomposition. Chemicals that may be released include styrenemonomer, benzene, and other hydrocarbons.



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### Section 11: Toxicological Information

Very low toxicity to humans or animals. Not considered to be dangerous to humans.

### Section 12: Ecological Information

#### Ecotoxicity

Avoid release to the environment. This substance is not expected to bioaccumulate through food chains in the environment.

### Section 13: Disposal Considerations

Transfer to an approved disposal area in accordance with federal, state, and local regulations.

### Section 14: Transport Information

#### Land Transport (Road/Rail)

Not classified as a dangerous goods.

#### Marine Transport Air Transport

Not classified as a dangerous goods.

Not classified as a dangerous goods.

### Section 15: Regulatory Information

There is no safety, health or environmental regulations specific for these products.

### Section 16: Other Information

Further information about characteristics of the product can be inferred from the brochure of Sangir Plastics Pvt. Ltd.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.