



## MATERIAL SAFETY DATA SHEET

F/C 006/PES dt. 5-1-2010 Rev 1.5

Section 1: Identification of Product and Supplier	
Product Trade Name	Sangir <b>POLYETHYLENE</b> Sheets
Product Use	Transport Containers, Electrical Engineering, Corrosion Protection seals, Gearwheels, Textile Cans, Housing, Manholes, Orthotics & Prostheses, Chemical Flooring, Geo Thermal Applications.
Supplier	Sangir Plastics Pvt. Ltd. 3rd Floor, Rajhans Paradise, 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 usages 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>Polyethylene Pigments</td><td>96 – 99.5%</td></tr><tr><td>Black – carbon black</td><td>2 - 3%</td></tr><tr><td>White – titanium dioxide</td><td>0 - 3%</td></tr><tr><td>Blue – copper phthalocyanine</td><td>0 - 3%</td></tr></tbody></table>	<u>Chemical Name/s</u>	<u>Proportion</u>	Polyethylene Pigments	96 – 99.5%	Black – carbon black	2 - 3%	White – titanium dioxide	0 - 3%	Blue – copper phthalocyanine	0 - 3%
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<b>Section 4: First-Aid Measures</b>	
<b>Swallowed</b>	There are no known health effects for the ingestion of polyethylene. Ingestion is unlikely to occur due to the physical size and dimensions of the products. However, small particles may be generated by sawing or mechanically breaking the products or similar means.
<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. Hydrochloric acid and other fumes emitted during combustion can cause irritation to the eyes. Flush with copious quantities of water and treat symptomatically.
<b>Skin</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. There have not been reports of irritation arising from such dust and small particles. Molten material will adhere to the skin and cause burns. Flush with copious quantities of water and see a doctor for prompt removal of the adhering material and treatment of the burn. Do not remove material or clothing from the skin. As removal may exacerbate the injury.
<b>Inhaled</b>	Inapplicable to the solid product due to the physical size and dimensions of the products. For inhalation of fumes and gaseous by-products (carbon monoxide, carbon dioxide, etc), remove the patient immediately from exposure and seek medical advice.
<b>Notes to Physician</b>	Treat symptomatically.

<b>Section 5: Fire-fighting Measures</b>	
<b>Extinguishing Media</b>	Water, water-fog or foam to extinguish fire. Carbon dioxide or dry chemical are suitable but are considered not as efficient due to lack of cooling capacity.
<b>Fire Fighting</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.
<b>Fire/Explosion Hazard</b>	Combustible and will support combustion. Products of combustion are carbon dioxide (asphyxiant), carbon monoxide (toxic) and low levels of aldehydes and acetic acid. All are potentially lethal in sustained exposure.
<b>Fire Incompatibility</b>	Oxidising agents.
<b>Personal Protection</b>	Wear fully protective body suit with self-contained breathing

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	apparatus (S.C.B.A.) to prevent contact with fumes and gases produced during combustion and appropriate gloves and footwear.
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<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.
<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>Section 7: Handling and Storage</b>	
<b>Procedure for Handling</b>	When cutting bands, exercise caution to ensure that springing of the sheets, particularly at the ends, cannot cause injury. Unpack stacks and bundles carefully 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. When heating for bending or other forming, use hot water or air with appropriate safeguards. Use of an open flame is inadvisable.
<b>Storage</b>	Store in appropriate areas (outside or in warehouse) in accordance with site safety requirements. Do not store with oxidising agents.

<b>Section 8: Exposure Controls / Personal Protection</b>	
<b>Exposure Controls</b>	No exposure controls are necessary as products are inert and all additives are encapsulated within the polymer matrix and present no hazard under conditions of normal use and good occupational work practice.
<b>Personal Protection Eye</b>	Glasses Glasses are recommended in case of accidental knock when handling sheets and especially when working sheets mechanically, sawing etc.
<b>Hands/Feet</b>	Safety footwear and gloves.
<b>Engineering Controls</b>	Appropriate controls for safe working when handling and

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	mechanically working e.g. sawing.
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<b>Section 9: Physical and Chemical Properties</b>	
<b>Appearance</b>	Plastic sheets of thickness 0.2mm to 200mm of various width and lengths. Colour: black, blue, white, yellow, green, red, orange, beige. Embossing made to order.
Odour	Nil
pH:	Nil effect, insoluble
Melting point	107 -130°C
Initial boiling point and range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Will burn in contact with flame
Upper/lower flammability	Not applicable
Vapour pressure	Not applicable
Vapour density	0.93 – 0.97
Relative density	insoluble in water
Solubility	Not applicable
Partition coefficient	Not applicable
Auto-ignition temperature	300°C
Decomposition temperature	

<b>Section 10: Chemical Stability and Reactivity</b>	
<b>Incompatible materials</b>	Stable under normal conditions of storage and use. Do not store with oxidising agents.
<b>Hazardous decomposition products</b>	Product will start to decompose if maintained at temperatures of 300°C. Decomposition products are carbon dioxide, carbon monoxides and low levels of aldehydes and acetic acid.

<b>Section 11: Toxicological Information</b>	
<b>LD<sub>50</sub> Value</b>	Not applicable

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	The products are inert and insoluble and consist of a fused polymer matrix which also encapsulates all additives.
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### Section 12: Ecological Information

<b>Ecotoxicity</b>	No adverse effects on environment have been reported. The product can be physically removed from waterways by means appropriate to the size article. It is recommended that local environmental agencies are notified.
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### Section 13: Disposal Considerations

<p>Recycle where possible.</p> <p>Refer to state/territory environmental protection agency/ authority. Normally suitable for disposal as general waste land fill.</p>
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### Section 14: Transport Information

<b>Land Transport (Road/Rail)</b>	Not classified as a dangerous goods.
<b>Marine Transport</b>	Not classified as a dangerous goods.
<b>Air Transport</b>	Not classified as a dangerous goods.

### Section 15: Regulatory Information

There is no safety, health or environmental regulations specific for these products.
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### Section 16: Other Information

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