

MATERIAL SAFETY DATA SHEET

F/C 005/PVCF dt. 5-1-2010 Rev 1.5

Section 1: Identification of Product and Supplier	
Product Trade Name	Sangir Polyvinyl Chloride (PVC) Foam Sheets
Product Use	Advertisements, Signage, Exhibition stands, Interior designs, walls & partitions, shop fittings, screen printing, photo mounting, Door panels.
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	Not listed.
Precautionary Statements	Not listed.
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 for advertisement and various other uses 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>Poly(vinyl chloride) polymer</td> <td>70 - 80%</td> </tr> <tr> <td>calcium carbonate filler</td> <td>3 - 16%</td> </tr> <tr> <td>Modifiers (chlorinated PE, & Acrylics)</td> <td>0 - 5%</td> </tr> <tr> <td>Stabiliser & lubricants</td> <td>1.6 - 6%</td> </tr> <tr> <td>Titanium dioxide</td> <td>1.2 - 4%</td> </tr> </tbody> </table>	<u>Chemical Name/s</u>	<u>Proportion</u>	Poly(vinyl chloride) polymer	70 - 80%	calcium carbonate filler	3 - 16%	Modifiers (chlorinated PE, & Acrylics)	0 - 5%	Stabiliser & lubricants	1.6 - 6%	Titanium dioxide	1.2 - 4%
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Section 4: First-Aid Measures	
Swallowed	There are no known health effects for the ingestion of PVC. 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. Wash out mouth with water then drink plenty of water.
Eye	Inapplicable to the solid product except for mechanical injury. Contact lenses should be removed. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
Skin	Inapplicable to the solid product except for mechanical injury. Contact with molten product may cause burns. Cool with plenty of cold water. Do not attempt to remove the solidified plastic without consulting a trained first aider. A possible risk of irritation to the skin. Remove heavily contaminated clothing, wash skin with soap and dry water. Seek medical attention if any required.
Inhaled	Inapplicable to the solid product due to the physical size and dimensions of the products. For inhalation of fumes and gaseous by-products remove the patient immediately from exposure and seek medical advice.
Notes to Physician	Treat symptomatically.

Section 5: Fire-fighting Measures	
Extinguishing Media	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.
Fire Fighting	Wear fully protective body suit with self-contained breathing apparatus (S.C.B.A.) to prevent contact with fumes and gases produced during combustion.
Fire/Explosion Hazard	PVC is a self extinguishing fire retardant material that being exposed to open fire and high temperatures decomposes emitting large quantities of HCl, which tends to extinguish the flames. It does not continue to burn after ignition without an external fire source. HCl has a strong acidic odour that causes sensory alert at very low concentrations. HCL odour threshold = 0.77 ppm. Exposure to high

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	concentrations of HCL will cause irritation of the respiratory passages, at very high concentrations may cause burns to mucous membranes. Soot emitted when PVC is forced to burn may obscure visibility. No special precautions and no personal protective equipment needed.
Fire Incompatibility	Oxidising agents.
Personal Protection	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.

Section 6: Accidental Release Measures	
Minor Spills	Collect products and bundle or secure safely. If necessary, isolate area to prevent damage to /destruction of products by vehicles etc.
Major Spills	Isolate area as necessary to prevent further damage. Collect products and bundle or secure safely.

Section 7: Handling and Storage	
Procedure for Handling	As solid board the hazard designation is void. Avoid dust formation if cutting, if product is abraded, machined or polished Local exhaust ventilation is recommended to remove fumes and dust. Avoid eating, drinking and smoking when using the product. Observe good industrial hygiene practices. Good housekeeping standards and regular safe removal of waste materials will minimise the risks of fire hazards.
Storage	Products should preferably be stored in dry covered conditions away from direct sources of heat, including sunlight. The boards should be fully supported or have supports at Max. 1.0mtr centres. During storage it must be recognised that the packaging and pallets may themselves be a fire risk, and are generally a much more likely route for rapid fire spread. No smoking.

Section 8: Exposure Controls / Personal Protection	
Exposure Controls	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.

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Personal Protection	Exposure assessment: none Respiratory protection: not required Eye protection: not required Body protection: not required
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Section 9: Physical and Chemical Properties	
Appearance	Plastic Sheets of thickness upto 10mm and upto 32 sq. ft. Colour: white, yellow, green, red, orange and custom Density varies between 0.50 to 0.70 as per customer's requirements.
Odour pH: Melting point Initial boiling point and range Flash point Evaporation rate Flammability Upper/lower flammability Vapour pressure Vapour density Relative density Solubility Partition coefficient Auto-ignition temperature	Nil Nil effect, insoluble < 180°C Not applicable Not applicable Not applicable Will burn in contact with flame Not applicable Not applicable Not applicable Not applicable 0.55- 0.70 g/cm ³ insoluble in water Not applicable Not applicable

Section 10: Chemical Stability and Reactivity	
Incompatible materials	Stable under normal conditions of storage and use. Oxidizing agents or strong mineral acids can cause reaction.
Hazardous decomposition products	Excessive heat, or open flame. Temperature above 150°C will decompose raw polymer resin and liberate HCL and traces of phosgene may arise. Burning can produce the following combustion products: Carbon monoxide (CO) - is highly toxic if inhaled; Carbon dioxide (CO ₂) - in sufficient concentrations can act as an asphyxiant;

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	Hydrogen chloride (HCl) - in high concentrations cause irritation of the respiratory passages, at very high concentrations may cause burns to mucous membranes.
Reactivity	Hazardous polymerization: Will not occur Hazardous reactions: None

Section 11: Toxicological Information

LD₅₀ Value	PVC materials have a very low acute toxicity. In rats an acute LD ₅₀ > 10 g/kg of body weight.
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Section 12: Ecological Information

Ecotoxicity	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

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

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

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.