# MATERIAL SAFETY DATA SHEET

| Section 1: Identification of Product and Supplier | |
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| **Product Trade Name** | Sangir **Polyvinyl Chloride (PVC) Sheets** |
| **Product Use** | Chemical Industry, Control cabinets and panels, Paper Industry, Vessel Lining, Chemical Flooring, Industrial Fabrication, Fire Retardant Applications, Fume Scrubber & FRP Applications. |
| **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 |

| Section 2: Hazards Identification | |
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| **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 | | |
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| **Composition and Form** | Manufactured sheets for various purposes as specified in section 1. | |
| **Chemical Composition** | *Chemical Name/s* | *Proportion* |
| | 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% |

| Section 4: First-Aid Measures | |
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| **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. |
| **Eye** | 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. |
| **Skin** | 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. Hydrochloric acid and other fumes emitted during combustion can cause irritation to the skin. Flush with copious quantities of water and treat symptomatically. |
| **Inhaled** | 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. |
| **Notes to Physician** | Treat symptomatically. |

| Section 5: Fire-fighting Measures | |
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| **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** | Combustible, self-extinguishing. Not an explosion risk. If forced to burn, it will emit dense acrid fumes containing hydrochloric acid (highly acidic and severe irritant), carbon dioxide (asphyxiant), carbon monoxide (toxic) and possibly phosgene (toxic). All are potentially lethal in sustained exposure. |
| **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. |
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## Section 6: Accidental Release Measures

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| **Minor Spills** | Collect products and bundle 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. |
| **Major Spills** | Isolate area as necessary to prevent further damage. Collect products and bundle or secure safely. Broken product and parts may have sharp edges and eye protection and gloves are recommended. |

## Section 7: Handling and Storage

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| **Procedure for Handling** | Check security of bundles of sheets before releasing strapping and retaining frames. Injury can be sustained by piling of sheets. Unpack bundles and ensure that free stacks are adequately stocked.<br>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. |
| **Storage** | Store in appropriate areas (outside or in warehouse) in accordance with site safety requirements. Do not store with oxidising agents. |

## Section 8: Exposure Controls / Personal Protection

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| **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. |
| **Personal Protection Eye** | Glasses<br>Glasses are recommended in case of accidental knock when handling sheet and especially when working sheets mechanically, sawing etc. |
| **Hands/Feet** | Safety footwear and gloves. |
| **Engineering Controls** | Appropriate controls for safe working when handling and mechanically working e.g. sawing. |

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## Section 9: Physical and Chemical Properties

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| **Appearance** | Plastic sheets of thickness from 0.2mm to 50mm. Width and length from 1m to 2m.<br>Colour: Grey & Dark Grey |
| Odour | Nil |
| pH: | Nil effect, insoluble |
| Melting point | Softens at >75˚C. |
| Initial boiling point and range | Not applicable<br>Not applicable |
| Flash point | Not applicable |
| Evaporation rate | Will burn in contact with flame |
| Flammability | Not applicable |
| Upper/lower flammability | Not applicable |
| Vapour pressure | Not applicable |
| Vapour density | Not applicable |
| Relative density | 1.3 – 1.6 |
| Solubility | insoluble in water |
| Partition coefficient | Not applicable |
| Auto-ignition temperature | Not applicable |
| Decomposition temperature | 300˚C |

## Section 10: Chemical Stability and Reactivity

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| **Incompatible materials** | Stable under normal conditions of storage and use.<br>Do not store with oxidising agents. |
| **Hazardous decomposition products** | Product will start to decompose if maintained at temperatures of >140˚C.<br>Decomposition products are hydrochloric acid, carbon dioxide, carbon monoxides and possibly phosgene. |

## Section 11: Toxicological Information

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| **$LD_{50}$ Value** | Not applicable<br>The products are inert and insoluble and consist of a fused polymer matrix which also encapsulates all additives. |

| Section 12: Ecological Information | |
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| **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. |

| Section 13: Disposal Considerations |
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| Recycle where possible.<br>Refer to state/territory environmental protection agency/ authority. Normally suitable for disposal as general waste land fill. |

| Section 14: Transport Information | |
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| **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 |
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| There is no safety, health or environmental regulations specific for these products. |

| Section 16: Other Information |
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| Further information about characteristics of the product can be inferred from the brochure of Sangir Plastics Pvt. Ltd.<br>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. |