1. **PRODUCT IDENTIFICATION**

MANUFACTURER: SimEx, Inc.
ADDRESS: 181 Pleasants Industrial Center, St. Mary’s, West Virginia 26170
TRADE NAME: Fypon
SYNONYMS: Polyvinyl Chloride Sheet, PVC Sheet
CAS NUMBER(S): 9002-86-2
EMERGENCY TELEPHONE NUMBER: 1.304.665.1104
DATE PREPARED: August 19, 2005

2. **COMPONENTS**

PVC Resin 70 – 95%
Inert Fillers 0 – 30% CaCO3, TiO2
Heat Stabilizer 0 – 3 % Organotin Compounds
Process Aids 0 – 2 % Acrylic Compounds
Impact Modifiers 0 – 10% CPE, ABS, MBS, or Acrylic Compounds
Lubricants 0 – 4 % Calcium Stearate, Paraffin, Polyethylene, Polyamide compounds or Esters
Colorants 0 – 2 % Organic and Inorganic
Chemical Blowing Agents 0 – 3 % Azo Compounds or Sodium Bicarbonate

3. **PHYSICAL/CHEMICAL CHARACTERISTICS**

PHYSICAL FORM: Solid
COLOR: Finished sheet with colors specified
ODOR: Insignificant
MOLECULAR WEIGHT: Ranging from 60,000 – 150,000
BOILING POINT (°F) Not Applicable
MELTING POINT: >350°F
FREEZING POINT: Not Applicable
SOLUBILITY IN WATER: Insoluble
SPECIFIC GRAVITY (H2O=1): 0.45-1.4
VAPOR DENSITY: Not Applicable
VAPOR PRESSURE (mm Hg): Not Applicable
EVAPORATION RATE (Butyl Acetate = 1): None
% VOLATILE: None
pH: Not Applicable

4. **FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (TEST METHOD): Not Applicable
AUTO IGNITION TEMPERATURE: Not Applicable
FLAMMABLE LIMITS IN AIR % BY VOL.
  LOWER: Not Applicable
  UPPER: Not Applicable
EXTINQUISHING MEDIA: CO₂, dry chemical, or water spray
SPECIAL FIRE FIGHTING PROCEDURES: In the event of a fire, use a self-contained breathing apparatus, evacuate all personnel from danger area, and use CO₂, dry chemical, or water spray to extinguish.
UNUSUAL FIRE AND EXPLOSION HAZARD: PVC will burn in the presence of supported combustion, and will emit hydrogen chloride gas, benzene, water, carbon monoxide, carbon dioxide, and smoke.

5. **REACTIVITY DATA**

STABILITY: Stable
CONDITIONS TO AVOID: Thermal decomposition
No decomposition during use according to specifications.
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride and other toxic fumes generated with combustion.
CAUTION: Prolonged heated (approximately 30 minutes or more) of the product above (392°F) or short heating at (482°F) may result in rapid evolution of hydrogen chloride and carbon monoxide.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Not Applicable
INCOMPATIBILITY: None known

6. **HEALTH HAZARD INFORMATION**

**Pertains to dust or chips as a by-product of fabricating finished sheet**

FIRST AID

EYES: Immediately flush with water for at least 15 minutes. Call a physician if irritation persists.
SKIN: Flush skin with plenty of water. Remove contaminated clothing. Call a physician if irritation persists. Wash clothing before reuse. If burned by molten plastics, seek medical attention immediately.
INHALATION: Remove to fresh air. If symptoms develop, seek medical attention.
INGESTION: Seek medical aid.
NATURE OF HAZARD

EYES: If exposed to high concentrations of dust, physical irritation of the eyes. Smoke from a fire emergency may cause eye irritation.

SKIN: This material is not expected to present a hazard to the intact skin. Molten sheet will produce thermal burns.

INHALATION: Under normal conditions and with normal use, no inhalation hazard is presented. Smoke from a fire may cause respiratory irritation.

INGESTION: No significant health hazard can be reasonably anticipated.

TOXICITY DATA

SKIN CONTACT: A review of the pertinent literature did not reveal specific toxicological information for PVC.

EYE CONTACT: A review of the pertinent literature did not reveal specific toxicological information for PVC.

INHALATION: Rodents exposed by the dietary or inhalation route for 6 to 24 months have shown no significant toxicological effects.

INGESTION: See above.

ECOLOGICAL INFORMATION

No data is available on the adverse effects of this product on the environment.

SPECIAL PRECAUTIONS

Avoid inhalation of combustion products.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES

When producing chips or dust from fabricating PVC sheet, sweep, scoop, or vacuum and remove.Dispose of only in accordance with local, state, and federal regulations.

WASTE DISPOSAL

DISPOSAL METHOD: Dispose of only in accordance with local, state, and federal regulations.

RECYCLE/RECLAIM: Recycling of PVC sheet should be encouraged where possible.

SHIPPING, TRANSFER AND STORAGE

SHIPPING INFORMATION: Non-hazardous for transportation purposes.

TRANSPORTATION AND STORAGE

USUAL SHIPPING CONTAINERS: Palletized sheets

STORAGE TRANSPORT: Sustained temperatures above 150°F may cause slow degradation.

ELECTROSTATIC ACCUMULATION

HAZARD: Yes

DOT SHIPPING LABEL: Not Listed

DOT LABEL: Not Applicable
8. CONTROL MEASURES

**Pertains to dust or chips as a by-product of fabricating finished sheet**

VENTILATION RECOMMENDATIONS: Local exhaust

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: If dust is produced during handling, an approved particulate filter respirator should be used.

EYE PROTECTION: Wear safety glasses or goggles during sheet cutting or fabrication process.

SKIN PROTECTION: Wear gloves when cutting or fabricating sheet and when handling hot or molten sheet.

OUTER CLOTHING AND EQUIPMENT: As necessary when handling hot or molten sheet.

WORK/HYGIENE PROCEDURE: Do not eat, drink, or smoke in the work area. Wash hands thoroughly after handling, especially before eating, drinking, smoking, chewing, or using restroom facilities.

EXPOSURE GUIDELINES NO: P

OSHA-PEL: Not applicable

ACGTH-TYL: Not applicable

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