

MATERIAL SAFETY DATA SHEET

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%	CaCO ₃ , TiO ₂
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 (H ₂ O=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

EXTINGUISHING 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 (392F) or short heating at (482F) 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 persist. Wash clothing before reuse. If burned by molten plastics, seek medical attention immediately.

INHALATION: Remove to fresh air. If symptoms develop, seek medication 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

DOT HAZARD GLASS:	Not Regulated
UN/NA NUMBER:	Not Applicable
HAZARD LABEL(S):	Not Applicable
HAZARD PLACARD(S):	Not Applicable
PACKING GROUP:	Not Applicable
BULK PACKING:	Not Applicable
RQ:	Not Applicable
ERG No.:	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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