

MATERIAL SAFETY DATA SHEET

version 1.1

Revision Date: Jan 2008



TUSCAN
MANUFACTURING

1. PRODUCT IDENTIFICATION

MANUFACTURING SITE: TUSCAN MANUFACTURING
ADDRESS: 1912 S. GRANT AVE., YORK, NE, 68467
TRADE NAME: TUSCAN MANUFACTURING
SYNONYMS: VINYL RAILING, PORCH POST & PVC ACCESSORIES
TELEPHONE NUMBER: (800) 500-8778

2. COMPONENTS AND HAZARD CLASSIFICATION

PVC Polymer	70-95%	
Inert Fillers	0-30%	CaCO ₃ TiO ₂
Heat Stabilizer	0-2%	Organotin Compounds
Lubricants	0-4%	Calcium Stearate; Paraffin, Polyethylene, Polyamide Compounds or Esters
Process Aids	0-2%	Acrylic Compounds
Impact Modifiers	0-10%	ABS, or Acrylic Compounds
Colorants	0-2%	Organic and inorganic Colorants (may contain heavy metals in the form of mixed metal oxides)

- PVC profiles and products typically contain less than 0.15ppm RVCM, and in no case contain greater than 1.0ppm residual vinyl chloride monomer.
- Contains no chemicals subject to SARA 302 or SARA 311/312 reporting.
PVC profiles contain zero lead or Antimony Compounds.
- PVC accessories contain zero lead and no greater than 1.5% Antimony Compounds which is a chemical subject to SARA 313 reporting.

3. PHYSICAL DATA

BOILING POINT: SOLID

SPECIFIC GRAVITY (H₂O=1): 1.40 – 1.48

VAPOR PRESSURE (mm Hg.): SOLID

MELTING POINT: Decomposes before melting

SOLUBILITY IN WATER: SOLID

VAPOR DENSITY: SOLID

APPEARANCE AND ODOR: SOLID, NO ODOR

4. FIRE AND EXPLOSION DATA

FLASH POINT: 900 DEGREES

AUTOIGNITION TEMP: N/A

FLAMMABLE LIMITS IN AIR % BY VOL.

LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: WATER SPRAY, FOAM, DRY CHEMICAL OR CO₂

SPECIAL FIRE FIGHTING PROCEDURES: Cool exposed equipment with water spray. Use self contained apparatus if fighting fire in confined spaces.

UNUSUAL FIRE AND EXPLOSION HAZARD: Prior to extrusion, injection or thermoforming and in its raw form, PVC contains less than 1.0ppm vinyl chloride monomer and evolves hydrogen chloride, carbon monoxide, and other toxic gases when burned. Exposure to combustion products may be fatal and should be avoided. PVC extrusion and pelletization processes remove potentially harmful volatile through heat, compression and concentrated vacuum. <1.0 ppm Vinyl Chloride monomer remains within profiles.

5. HEALTH HAZARD INFORMATION

FIRST AID

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if irritation persists.

SKIN: Flush with water to remove material from skin.

INHALATION: Remove to fresh air.

INGESTION: If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

NATURE OF HAZARD

Cutting of PVC profiles results in the generation of sawdust. The dust is classified as a nuisance dust. Exposure to the dust may cause physical irritation of contacted areas. PVC, in its raw form, under burning condition, HCL gas will be produced. HCL gas is irritating to the upper respiratory tract. Exposure to high concentrations of HCL gas may be fatal. The extrusion process heats, compresses, and evacuates the HCL gas. PVC extrusions, according to OSHA, are not classified as hazardous.

EXPOSURE LIMITS

NUISANCE DUST: OSHA PEL of 15mg/m³ TWA* for 8 hours.

ACGIH TLV of 10mg/m³ TWA for 8 hours.

VINYL CHLORIDE: OSHA PEL of 1.0 ppm TWA for 8 hours; 5 ppm for 15-minute TWA.

ACGIH TLV of 5.0 ppm for 8 hours.

* TWA = Time Weighted Average

TOXICITY DATA

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

EYE CONTACT: A review of the pertinent literature did not reveal specific 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

SPECIAL PRECAUTIONS

AVOID INHALATION OF COMBUSTION PRODUCTS.

6. REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: N/A

INCOMPATIBILITY: N/A

HAZARDOUS DECOMPOSITION PRODUCTS:

Hydrogen chloride and other toxic fumes generated with combustion.

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: N/A

7. SPILL OR LEAK PROCEDURES

In case of spill: sweep, scoop, or vacuum and remove. Dispose of in accordance with local, state, and

federal regulations as applicable.

8. SPECIAL PROTECTION INFORMATION

VENTILATION RECOMMENDATIONS

General ventilation for thermal processing and nuisance dust control.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT

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

EYES: Safety glasses or goggles.

GLOVES: Necessary when handling hot or molten material.

Other clothing and equipment: As necessary when handling hot or molten material.

9. SHIPPING, TRANSFER AND STORAGE

SHIPPING INFORMATION

This product is not a hazardous material or hazardous substance as defined by the Department of Transportation, nor is it a dangerous good as defined by IATA for air transportation or IMO for Marine Transport.

TRANSPORTATION AND STORAGE

USUAL SHIPPING CONTAINERS: Polyfilm shrink plastic cover w/wood bundle supports or corrugated packaging.

STORAGE/TRANSPORT TEMPERATURE: Exposure to ambient temperature variation is acceptable. Care should be given to bulk and flat profile storage. To prevent shape deformation, electrostatic accumulation or its presence is a potential. Certain applications may require the use of a Quaternary Ammonium as a suppressant.

ELECTROSTATIC ACCUMULATION HAZARD:

HANDLING AND STORAGE MATERIALS AND COATINGS

SUITABLE: Non abrasive or reactive contact surfaces.

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