

**HOHMANN & BARNARD, INC.**

30 RASONS COURT – P.O. BOX 5270 – HAUPPAUGE, NY 11788

TEL: (631) 234-0600 FAX: (631) 234-0683

BRANCH OFFICES: ALABAMA – ILLINOIS – MARYLAND – TEXAS

# **FLEXIBLE VINYL PELLET COMPOUND**

## **MATERIAL SAFETY DATA SHEET**

**Section I:** Chemical Name / Synonyms - Polyvinyl Chloride, PVC, Vinyl  
 Formula - PVC resin (CH<sub>2</sub> CHCl)<sub>n</sub> plus functional additives  
 Chemical Family - Vinyl resin – Chloroethene Polymer  
 CAS registry number - Not applicable to compounds

### **Section II: Hazardous Ingredients**

\*\* Flexible vinyl pellet compounds are mixtures of PVC resins with various functional additives. Additives are bound up in the manufacturing process and are not expected to create any hazard when handled or processed in accordance with good manufacturing and industrial hygiene practices.

Trace amounts of hydrogen chloride may be generated from the PVC compound if overheated. Volatiles from stabilizers, plasticizers, lubricants, etc. which may be generated in trace amounts may prove sensitive to some individuals.

### **Section III: Physical Data**

Solubility in water - Very Slight  
 Specific Gravity - 1.15 to 1.70 depending on formulation  
 Appearance & Odor - Pigmented or unpigmented granules, odorless or with a bland odor  
 Other - Characteristics such as vapor pressure, vapor density, boiling point & evaporation rate are not applicable.

### **Section IV: Fire and Explosion Hazard Data**

\*\* Flash Ignition and Self Ignition temperatures vary somewhat with the composition but should be no lower than the following:

Flash ignition temperature - 300° C  
 Self Ignition Temperature - 410° C

\*\* Vinyl compounds will not support combustion but can be forced to burn by continuous application of intense heat.

#### **\*\* Extinguishing Media**

Water is most effective. ABC dry chemical, AFFF and protein type air foams are also effective. Belden vinyl compounds are "ordinary combustibles" (NFPA Class A).

#### **\*\* Special Fire Fighting Procedure**

Positive pressure self contained breathing apparatus (SCBA) is suggested during and immediately after a fire.

#### **\*\* Combustion Products**

When forced to burn, primary combustion gases will be hydrogen chloride, carbon monoxide, carbon dioxide and aliphatic olefins. Trace amounts of benzene and aliphatic and aromatic hydrocarbons may be present.

\*\* Hydrogen Chloride has a corrosive effect on many metals and appropriate measure should be taken where exposure occurs.

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**Section V: Health Hazard Data**

Threshold limit value - None established

Effects of overexposure - None at room temperature

At processing temperatures vinyl compounds may emit fumes and vapors that are irritating to the respiratory tract, eyes or skin of some sensitive individuals.

**\*\* Emergency and First Aid Procedure**

If irritation from exposure to processing fumes persists, remove affected individual, call a physician and provide suitable protection before re-entry.

**Section VI: Reactivity**

Stability - Stable

Hazardous Polymerization - Will not occur

Hazardous decomposition products - Hydrogen chloride, carbon monoxide, carbon dioxide, aliphatic olefins - Trace amounts of benzene and aromatic and aliphatic hydrocarbons.

Incompatibility - Avoid contact with acetal, acetal copolymers and amines during processing

**Section VII: Spill or Leak**

\*\* Vacuum or sweep into a closed container for reuse or disposal. Dispose of in a licensed landfill or by incineration, If incinerated be aware that hydrogen chloride is generated.

**Section VIII: Special Protection Information**

Ventilation - Provide effective ventilation to draw fumes away from workers to prevent routine inhalation

Respiratory Protection - Not normally required

Protective Equipment - Gloves for handling hot materials and safety glasses are recommended for all industrial work places.

**Section IX: Special Precautions**

Normal Melt Processing - Provide adequate ventilation to avoid build up of fumes

Clean up - Avoid conditions that will result in significant decomposition caused by excessive heat history

\*\* Compound at or above normal processing temperatures should not be allowed to accumulate in thick masses, or it will begin to thermally decompose and to swell due to internal gassing. Molten waste should be collected as strands or flattened and quenched in cold water. Decomposing metal should be removed to a well-ventilated area, preferable outdoors.

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**Section X: Transportation**

\*\* Vinyl compounds are not classified as hazardous by the US Dept. of Transportation under the Title 49 of the Code of Federal Regulations, 1983 edition.

**Section XI: Hazardous Codes**

	<b>NFPA 704</b>	<b>HMIS</b>
Health:	Moderate	Insignificant
Flammability:	Slight	Slight
Reactivity:	Insignificant	Insignificant