



# MATERIAL SAFETY DATA SHEET

## SIGN•FOAM<sup>3</sup>® RPU3000

### Section I – Product Information

**Manufacturer:** Sign•Arts Products, Corp.  
26081 Merit Circle.  
Suite 104  
Laguna Hills, CA 92677  
USA  
1-949-716-4934

**Product Name:** SIGN•FOAM<sup>3</sup>® RPU 3000

**Product Description:** SIGN•FOAM<sup>3</sup>® RPU 3000 is a closed cell rigid polyurethane foam. All substances used to manufacture SIGN•FOAM<sup>3</sup>® RPU 3000 are listed on the TSCA inventory. No halogen based flame-retardants or blowing agents, (CFC's or HCFC's), are used in the manufacture of this foam.

\*Last two digits indicate density in pounds/cubic foot.

### Section II – Hazardous Ingredients

None.

### Section III – Physical Properties

**Form:** Cellular Solid

**Water Solubility:** Not Soluble

**Specific Gravity:** .10 to .60

**Vapor Pressure:** Not applicable

### Section IV – Fire and Explosion Data

**Flash Point:** > 600, similar to Cleveland Open Cup.  
This material is flame resistant and self-extinguishing; however, it will burn in the presence of sufficient heat and oxygen.

**Extinguishing Media:** Dry chemical, carbon dioxide, foam and water spray.

**Special Procedures:** During a fire, carbon monoxide, nitrogen oxides, and other polymer fragments that may be highly toxic and /or irritating, may be present. Self-contained breathing apparatus and full protective gear should be used.

Polyurethane foam dust, like most dust, can present an explosion risk. However, a dust collection system necessary for a suitable work environment is more than adequate to eliminate this risk. **General Plastics Manufacturing Company** has used a dust collection system and over many years of experience in cutting, planning, shaping, routing, and sanding SIGN•FOAM<sup>3</sup>® RPU 3000 polyurethane foam and has never experienced any fire or explosion hazards.

### Section V- Reactivity Data

**Incompatible Materials:** This product is stable. No known incompatibilities.



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**Ingestion:** Urethane foams are considered non-toxic on ingestion.

**Eye Contact:** Dust from cutting and machining may irritate the eyes.

**Skin Contact:** See the following section.

**Inhalation:** SIGN•FOAM3® RPU 3000 foams are chemically inert. Foam dust is generated in many operations and a dust collection system is normally used for a suitable work environment. Studies published by Upjohn in the Technical Bulletin No. 107 show no sensitization on skin contact with rigid polyurethane foam dust, and the many years of experience in cutting, planning, shaping, routing, and sanding rigid polyurethane foams at **General Plastics Manufacturing Company** is in agreement with these studies. The studies by Upjohn show no inhalation problems that are peculiar to polyurethane foam dust. Normal protective equipment, such as gloves, eye goggles, and masks that mechanically filter the dust may be necessary in operations where large amounts of dust are generated.

**Note:** Tests with Spregue-Dawley rats at 8.85 mg cubic meter of polyurethane dust show no carcinogenic effects.

Medical conditions that may be aggravated by exposure include, asthma, bronchitis, emphysema, skin allergies, and eczema.

The possibility exists that individuals who are very sensitive to isocyanates may also be sensitive to the reacted foam. Should this be the case, those individuals need to be assigned to an area that does not have polyurethane foam.

Section VII – Spill or Leak Clean-Up

Not applicable.

Section VIII – First Aid Procedures

**Skin:** Wash with soap and water. Seek medical attention if redness persists.

**Eyes:** Immediately flush with plenty of water to remove dust particles. If irritation is severe and/or is not promptly relieved by washing, seek medical attention.

**Ingestion:** Not applicable.

**Inhalation:** Move to fresh air.

Section IX – Waste Disposal

SIGN•FOAM3® RPU 3000 is inert foam which may be disposed of in an ordinary landfill.

Section X – Special Protection Information

**Respiratory:** The inhaling of foam dust as with any dust should be avoided. A mechanical dust collection system should be used for cutting or machining operations that generates large quantities of dust. Standard dust or particle masks should be used in a dusty situation.

**Skin:** Gloves are not normally necessary.

**Eye Protection:** Safety glasses, or goggles, appropriate to cutting or machining operations being performed should be worn.

Section XI – Special Precautions or Other Comments

Handling: Not applicable.

Storage: Store in a manner to prevent possible combustion similar to that used for combustible solids, like wood.

Section XII – Transportation Data

**SIGN•FOAM3® RPU 3000 is not regulated or classified in a manner that requires special handling or precautions in shipment.**



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