

# MATERIAL SAFETY DATA SHEET

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Manufacturer's  
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Emergency  
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Person Responsible for  
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## SECTION 1 - IDENTITY

Common Name: Phenolic Unisub

CAS No: NA

Trade name & Synonyms: Phenolic Unisub

Chemical Family: Plastic Composite

Description: High Pressure Laminated Plastic

Formula: NA

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## SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component (s): This material is Phenolic Unisub. As such, it is essentially inert (non-toxic) during handling and storage. This MSDS also discusses potential hazards created in the sublimation process. Only information specific to Phenolic Unisub is included as required. PLEASE NOTE: Other components used in the sublimation process such as inks are separate materials and are not covered in this MSDS.

No hazardous components according to 29 CFR 1910.1200  
Nuisance dust may be generated during cutting or sanding operations.

Nuisance dust is considered as "Particulates Not Otherwise Classified" or "Particulates Not Otherwise Regulated".

Particulates Not Otherwise Classified or Regulated	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
	TWA 15mg/m <sup>3</sup> (Total Dust) STEL None	TWA 10mg/m <sup>3</sup> (Inhalable Particulate) STEL None
Particulates Not Otherwise Classified or Regulated	TWA 5 mg/m <sup>3</sup> (Respirable Particulate) STEL None	TWA 3 mg/m <sup>3</sup> STEL None

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### SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

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Boiling Point: NA		Specific Gravity: 12 @ 70F
Vapor Pressure (mm Hg): NA	Percent Volatile by Volume (%): NA	Vapor Density (Air = 1): NA
Evaporation Rate (butyl acet = 1): NA	Solubility in Water: Insoluble in water	Reactivity in Water: None known

Appearance and Odor: Phenolic Unisub is a laminate sheet with no discernible odor. The sublimation or engraving process could also create an odor.

#### FIRE AND EXPLOSION DATA

Explosive Limits: See below under Unusual Fire and Explosion Hazards

#### Flash

Point: Product has no flash point per Pensky Martins Closed Cup Method

#### Fire Extinguisher Media:

This material is considered a "Class A" type combustible material. Use water, foam or dry chemical to extinguish.

Flammable Limits      Lower: None      Upper: None

Special Fire Fighting Procedures: No special procedures required.

Unusual Fire and Explosion Hazards: Minimize accumulation of dust from cutting or sanding operations through use of local ventilation systems. High airborne concentrations of combustible dusts may be explosive if contacted with an ignition source.

Hazardous Combustion Products: Thermal decomposition may release toxic and or hazardous gases.

### SECTION 4 - PHYSICAL HAZARDS

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Stability: Product is Stable

Conditions to Avoid: Avoid exposure to open flame

Hazardous Decomposition Products: Thermal and/or thermal oxidative decomposition can produce irritating and toxic fume and gases, including carbon monoxide, hydrogen cyanide, aliphatic aldehydes, rosin acids, terpenes and polynuclear aromatic compounds.

Hazardous Polymerization: Will not occur.

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SECTION 5 - HEALTH HAZARDS: Product is a solid sheet of Phenolic. No hazards anticipated during handling and storage.

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Primary Routes of Exposure:

Exposure from Routine use: Dust from cutting or sanding operations can cause irritation to the eyes, respiratory system and skin.

Eye Contact: Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of dust remains (approximately 15-20 minutes)

Skin Contact: Wash affected area with soap and water to remove residual dust.

Ingestion: Remove from exposure to fresh air immediately.

Effects of Overexposure: Exposure to elevated dust levels may cause irritation to the eyes and respiratory system. Prolonged skin exposure to dust may cause drying of the skin.

Ingestion: Treat symptomatically and supportively if dust is ingested.

Other:

The resin used to make this plastic contains small amounts of formaldehyde. The cured plastic may emit small amounts of formaldehyde during fabrication or if heating of the product occurs. Air testing of representative fabrication operations indicates that formaldehyde releases are minimal and formaldehyde air concentrations are below regulatory standards. Formaldehyde has been identified as a skin sensitizer in low concentrations as a probable human carcinogen (IARC-2A, pharyngeal cancer excess in formaldehyde-exposed workers).

Toxicity Data

Oral: NA

Dermal: NA

Inhalation: NA

EYE: NA

Carcinogenicity: NA

Emergency and First Aid Procedures:

Inhalation: Provide adequate general and local exhaust ventilation to maintain airborne concentrations below the exposure limit. Enclose fabrication operations, where possible, to minimize dust dispersion into other work areas.

Eyes: Safety glasses required.

Skin: Wash affected areas with soap and water. Get medical advice if rash or persistent irritation or dermatitis occurs.

Ingestion: Not applicable.

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SECTION 6 - SPECIAL PROTECTION INFORMATION:  
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Respiratory Protection: Usually not necessary to reduce exposures to TLV during anticipated normal use. If requested, due to odor or if TLV is exceeded; use organic vapor filtration system with a respirator type appropriate for the exposure level.

Ventilation: Usually not necessary to reduce exposures to TLV during normal use. General or local exhaust may be necessary to minimize odors in small rooms. **All confined space work should be done in accordance with OSHA 1910.146.**

Protective Gloves: Possible material handling hazard (cuts, abrasion). Use cloth or leather if necessary or requested.

Eye Protection:

Other Protective Clothing or Equipment: None known.

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SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES  
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Precautions to be Taken in Handling and Storage: None known.

Other Precautions: Use sufficient local or general ventilation to reduce odors.

Steps to be Taken in Case Material is Released or Spilled: Currently none for product.

Waste Disposal Methods: Currently none for product.