



TULSTAR PRODUCTS, INC.

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MATERIAL SAFETY DATA SHEET

COMPANY INFORMATION

Company Name: **TULSTAR PRODUCTS, INC.**
5510 S. Lewis Ave.
Tulsa, OK 74105
Phone Number: (918) 749-9060
Fax Number: (918) 747-1444
Email Address: tulstar@tulstar.com
Emergency Number: CHEMTREC 800-424-9300 (24 hours)

IDENTIFICATION

Product Name: Thermoset Laminates
Chemical Name: See Chart
Chemical Family: Thermoset Laminates
Synonyms: None

HAZARDOUS INGREDIENTS

Substance listed are those identified as being present in concentrations of 1% or greater, or 0.1% if substance is listed as a potential carcinogen.

PHYSICAL DATA

Melting Point: See Chart
Vapor Pressure: N/A
Vapor Density: N/A
Solubility in Water: N/A
Appearance: Sheet, rod, tube & machined parts
Specific Gravity: See Chart (H₂O = 1)
Percent Volatile: 0.3-1.0% (by Volume)
Evaporation Rate: N/A
Color: Various, natural to black
Odor: None to slight

FIRE & EXPLOSION HAZARD DATA:

Flash Point: N/A
Flammability: N/A
Extinguishing Media: Water, Carbon Dioxide, Dry Chemical
Special Fire Fighting Procedures: May give off any or all of the hazardous decomposition products listed. Dust from dry fabrication operations may be explosive if mixed with air in critical proportions in the presence of ignition.

HEALTH HAZARD DATA:

Threshold Limit Value: No TLV exist for thermoset laminate plastic shapes. The hazards associated with laminate plastic shapes are for the products of combustion; See Chart.

Effects of Overexposure: Inhalation of dust may cause respiratory irritation. May cause skin or eye irritation.

Emergency and First Aid Procedures: In the event of acute exposure, remove to fresh air, administer oxygen, and seek physician's assistance.

REACTIVITY DATA:

Stability: Stable

Incompatibility: Not Incompatible

Hazardous Decomposition Products: See Chart

Hazardous Polymerization: N/A

Conditions to Avoid: When heated to decomposition or combustion temperatures, hazardous products of combustion occur as shown- See Chart.

SPILL OR LEAK PROCEDURES:

Steps to be taken in case material is released or spilled: N/A

Waste Disposal Method: Approved landfill site in compliance with Federal, State, and Local regulations.

SPECIAL PROTECTOIN INFORMATION:

Respiratory Protection: If matching operations are not adequately ventilated, a N.O.I.S.H. approved respirator should be worn.

Ventilation: Mechanical (general) preferable, local exhaust acceptable.

Protection Equipment: When machining thermoset laminate plastics, face shield or safety glasses should be worn. In general, protection beyond established industrial safety practices adequate ventilation is not required.

SPECIAL PRECAUTIONS:

Precautions to be taken in Handling and Storage: None

Other Precautions: When fighting fires use a self-contained breathing apparatus.

* N/A- Not Applicable

| CHEMICAL NAME | GRADES | SPECIFIC GRAVITY | MELTING POINT | FLASH IGNITION TEMP (°F) | HAZARDOUS PRODUCTS OF COMBUSTION |
|--------------------|------------|------------------|---------------|--------------------------|----------------------------------|
| Phenolic Cellulose | X, XX,XXX | 1.10-1.40 | N/A | Non-Volatile | CO, CO ₂ , F |
| Phenolic Cellulose | C, CE | 1.10-1.40 | N/A | Non-Volatile | CO, CO ₂ , F |
| Phenolic Cellulose | L, LE | 1.10-1.40 | N/A | Non-Volatile | CO, CO ₂ , F |
| Phenolic Cellulose | N-1 | 1.15-1.19 | N/A | Non-Volatile | CO, CO ₂ , F |
| Phenolic Cellulose | G3 | 1.70-1.90 | N/A | Non-Volatile | CO, CO ₂ , F |
| Melamie Glass | G5, G-9 | 1.70-1.95 | N/A | Non-Volatile | CO, F, A |
| Silicone Glass | G-7 | 1.55-2.05 | N/A | Non-Volatile | CO |
| Epoxy Glass | G-10/FR4 | 1.65-2.20 | N/A | Non-Volatile | CO, CO ₂ , F, HBr |
| Epoxy Glass | G-11/FR5 | 1.65-2.20 | N/A | Non-Volatile | CO, CO ₂ , F, HBr |
| Polyester Glass | GPO-1,2,3 | 1.61-2.00 | N/A | 650 | CO |
| Polyester FR Glass | Electrical | 1.83 | N/a | 650 | CO,HBr |

CO = Carbon Monoxide

CO₂ = Carbon Dioxide

F= Formaldehyde

HBr = Hydrogen Bromide

A = Ammonia

