

# PLEIGER

Pleiger Plastic Company  
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## MATERIAL DATA SAFETY SHEET

### I. IDENTIFICATION

<b>Manufacturer:</b>	Pleiger Plastic Products	<b>Emergency Phone:</b>	(800) 444-2892
<b>Address:</b>	PO BOX 1271 Crile Road Washington, PA 15301	<b>Phone For Information:</b>	(724) 228-2244
<b>Trade Name:</b>	Plei-Tech Polyurethane	<b>CAS Number:</b>	NA
<b>Chemical Name:</b>	Thermoset Polyurethane Elastomer	<b>Chemical family:</b>	Polyurethane

### II. HAZARDOUS INGREDIENTS / SPECIAL REGULATORY HAZARDS

<b>Ingredient</b>	<b>CAS No.</b>	<b>Exposure Limit</b>	<b>OSHA(1910.1200)</b>	<b>EEC</b>
Product	NA	ND	Not Hazardous	Not Hazardous

**Transportation:** NA

Not Applicable: Polyurethane elastomers are fully reacted polymers forming articles which are not considered hazardous under OSHA's criteria 29CFR1910.1200.

### III. PHYSICAL DATA

**Appearance And Odor:** Molded parts or sheet, no characteristic odor

<b>Solubility:</b>	Insoluble in water	<b>Vapor Pressure @ 20C:</b>	1.05-1.26
<b>Melting Point:</b>	Will not melt, will degrade above 250C	<b>Vapor Density (Air=1):</b>	NA
<b>Boiling Point:</b>	NA	<b>Vapor Pressure @ 20C:</b>	NA
<b>Other Data:</b>	None	<b>Volatility @ 70F:</b>	None

### IV. FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point:</b>	NA	<b>Autoignition Temp:</b>	ND
<b>Extinguishing Media:</b>	Water Spray, Dry Chemical	<b>Flammable Limits in Air:</b>	ND

**Special Fire Fighting Procedures:** Protect against inhalation of combustion products, self-contained breathing apparatus should be used. Avoid breathing smoke, fumes, and decomposition products. Use water spray to drench smoldering elastomer. Product may melt, after ignition, to form flammable liquids. Burning produces intense heat, dense smoke, and toxic gases such carbon monoxide, oxides of nitrogen, and traces of cyanide.

**Unusual Hazards :** None Identified

## V. REACTIVITY DATA

**Stability:** Stable at ambient temperatures and pressures

**Incompatibility:** Strong acids and bases

**Decomposition Products:** Decomposition through burning produces fumes consisting of organic particulates, gaseous hydrocarbons, carbon dioxide, carbon monoxide, and may contain traces of toluene diisocyanate (TDI), diphenylmethane diisocyanate (MDI), naphthalene diisocyanate (NDI), or Paraphenylene diisocyanate (PPDI).

**HAZARDOUS POLYMERIZATION:** Will not occur

**Conditions To Avoid** None

## VI. SPECIAL PROTECTION INFORMATION / HEALTH HAZARD DATA

**Route Of Entry:** **Inhalation:** Yes, Primary Route **Skin:** No **Ingestion:** No Toxic Effects

Inhalation of dust during machining and inhalation of vapors during hot wire cutting or branding

**Health Hazards(Acute and Chronic):** Acute – none known from solid article. Fumes from hot-wire cutting or branding can be irritating and lead to coughing. These fumes could contain traces of toluene diisocyanate (TDI), diphenylmethane diisocyanate (MDI), naphthalene diisocyanate (NDI), or paraphenylene diisocyanate (PPDI).

Chronic – Animal studies indicate that chronic inhalation or overexposure of dust may cause inflammation of the lungs, fibrosis, and airway obstruction.

**Carcinogenicity:** **NPT- NO** **IARC Monograph-No** **OSHA Regulated-No**

Cured Polyurethane is not listed as a carcinogen

**Medical Conditions Generally Aggravated By Exposure:** Dust from grinding operations may aggravate existing lung disorders when proper protection is not used.

**Emergency and First aid Procedures:** Flush eyes with water if dust from grinding causes irritation

## VII. STORAGE, SPILLS, AND DISPOSAL INFORMATION

**Storage:** Store away from sources of direct heat, sparks, flames, and other ignition sources. Store in areas with Sprinklers systems

**Spills:** N/A

**Disposal:** In accordance with the applicable local, state, or federal regulation regarding disposal of polymer waste.

**Environmental Information:** Environmental effects have not been determined.

**Other Precautions:** Cutting elastomers by hot wire or branding can form decomposition products. Local exhaust ventilation should be used to remove any fumes. If the isocyanates are emitted, ventilation should be sufficient to insure levels below the TVL for TDI (0.005 ppm TWA / 0.02 ppm STEL)

## VIII. CONTRIL MEASURES

**Respiratory Protection:** For Grinding-Wear a dust mask. If generating fumes from hot wire or hot knife operations, wear an air-purifying respirator with an organic cartridge if exhaust ventilation is inadequate.

**Ventilation:** Local Exhaust – As required to reduce dust and fume exposure below OSHA Limits.  
Mechanical – N/A Special – N/A

**Protective Gloves:** None Required

**Eye Protection:** None in normal use, for grinding operations use grinding goggles.

**Other Protective Clothing:** None required

**Work/Hygienic Practice:** None required

