

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)

Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Polyurethane Elastomer

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's name Plan Tech, Inc.	Emergency Telephone Number n/a
Address (Number, Street, City, State and ZIP Code) 7031 Shaker Road, Loudon, NH 03307	Telephone Number for Information 603-783-4767
	Date Prepared May, 9, 1988 (Revised 12/07)
	Signature of Preparer (optional)

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
NOT APPLICABLE				
POLYURETHANE ELASTOMERS ARE FULLY REACTED POLYMERS				
FORMING ARTICLES WHICH ARE NOT CONSIDERED HAZARDOUS				
UNDER OSHA'S CRITERIA IN 29CFR1910.1200				

Section III—Physical/Chemical Characteristics

Boiling Point	Not applicable	Specific Gravity (H ₂ O = 1)	1.05-1.26
Vapor Pressure (mm Hg)	Not applicable	Melting Point Melts 380°F-450°F Will degrade above 300°F (150°C)	
Vapor Density (AIR = 1)	Not applicable	Evaporation Rate (Butyl Acetate = 1)	Not applicable
Solubility in Water	Insoluble		
Appearance and Odor	Solid, No odor		

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Not applicable		Not applicable	Not applicable
Extinguishing Media			

Water, Dry Chemical, Foam or Carbon Dioxide

Special Fire Fighting Procedures Evacuate non-emergency personnel to a safe area. Firefighters should use self-contained breathing apparatus. 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 as carbon monoxide, oxides of nitrogen and traces of hydrogen cyanide.

Unusual Fire and Explosion Hazards

None

(Reproduce locally)

OSHA 174 Sept. 1985

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	None

Incompatibility (*Materials to Avoid*) **Strong Acids or Bases**

Hazardous Decomposition or Byproducts Decomposition through burning produces fumes consisting of organic particulates, gaseous hydrocarbons, carbon dioxide, carbon monoxide and may contain traces of toluene diisocyanate or diphenylmethane diisocyanate, hydrogen cyanide, acrolein and oxides of nitrogen

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation? Yes, Primary Route – Inhalation of dust during machining & inhalation of vapors during hot wire cutting or branding	Skin? No	Ingestion? No toxic effects are expected
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Health Hazards (*Acute and Chronic*) Acute: None known from solid article. Fumes from hot wire cutting can be irritating and lead to coughing. These fumes could contain traces of Isocyanates (MDI or TDI) depending upon which Isocyanate is used in the elastomer formulation.

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

Carcinogenicity	NTP? No	IARC Monographs? No	OSHA Regulated? No
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Cured Polyurethane is not listed as a carcinogen

Signs and Symptoms of Exposure See Acute and chronic effects

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

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled Pick up and handle as any other inert solid material

Waste Disposal Method

Not considered a hazardous material. Dispose of material according to any local, state and federal regulations.

Precautions to Be Taken in Handling and Storing

Store elastomers in areas equipped with sprinkler systems. Store away from sparks, flames or other ignition sources.

Other Precautions Cutting Elastomers by hot wire or hot branding can form decomposition products. Local exhaust ventilation should be used to remove any fumes. If isocyanates are emitted, ventilation should be sufficient to insure levels below the TLV for TDI (0.005 PPM TWA/0.02 PPM STEL) or MDI (0.02 PPM Ceiling) Also see respiratory protection below.

Section VII—Control Measures

Respiratory Protection (*Specify Type*) For grinding- Wear a dust mask. If generating fumes from hot wire or hot knife operation- wear an air-purifying respirator with organic cartridge, if ventilation is inadequate.

Ventilation	Local Exhaust	As required to reduce dust and fume exposure below OSHA levels.	Special	None
	Mechanical (<i>General</i>)	See Local Exhaust	Other	None

Protective Gloves	None required	Eye Protection	None required in normal use. For grinding operations, use grinding goggles.
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Other Protective Clothing or Equipment None required

Work/Hygienic Practices None required