### MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200.

COMPANY NAME PSI Urethanes, Inc.

10503 Metropolitan Dr. Austin, Texas 78758

MATERIAL NAME Cured Polyurethane

## **Section 1: Chemical Product / Company Identification**

Material Identification
Cured polyurethane

Company Identification / Mailing Address PSI Urethanes, Inc. 10503 Metropolitan Dr. Austin, Texas 78758

Date Prepared 5-11-08

Product Information Telephone Number 512-835-5873

Transport Emergency Telephone Number

Medical Emergency Telephone Number

Other Telephone Number

### Section 2: Composition, Information on Ingredients

Hazardous Components (Specific Chemical %(Wt./Vol.) Other Limits
Identity: Common Names(s)) (Optional) CAS Recommended PEL TLVs
None N/A N/A N/A N/A

POLYURETHANE ELASTOMERS ARE FULLY REACTED POLYMERS FORMING ARTICLES WHICH ARE NOT CONSIDERED HAZARDOUS UNDER OSHA'S CRITERIA 29 CFR 1910.1200. HOWEVER, HAZARDOUS DUSTS, VAPORS, GASES, OR FUMES MAY BE RELEASED BY MECHANICAL OR THERMAL PROCESSING, OR BY THERMAL DECOMPOSITION.

# **Section 3: Hazard Identification**

**Emergency Overview** 

**Acute:** Fumes from hot wire cutting can be irritating and lead to coughing. These fumes could contain traces of TDI, MDI, other isocyanates, and/or curatives. Skin or airborne exposure to isocyanates may produce an asthma-like lung sensitization, with shortness of breath, wheezing or cough, which may occur after re-exposure to very low levels.

Skin contact with some polyurethane products may result in skin sensitization or an asthma-like lung sensitization. **Chronic:** Animal studies indicate that chronic inhalation or overexposure of dusts may cause inflammation of the lungs, fibrosis, and airway destruction.

Severe Immediate Hazards

Dusts from grinding operations may aggravate existing lung disorders when proper protection is not used.

Potential Health Effects

Routes of Exposure: x Skin x Inhalation o Ingestion Lengths of Exposure: o Single x Repeated x Lifetime

Severity of Effect: o Mild o Moderate x Severe

Target Organs: o Liver o Kidney x Lung x Skin o \_\_\_\_\_\_

Effects/Symptoms

See acute and chronic effects in Emergency Overview.

Carcinogenity

Cured polyurethane is not listed as a carcinogen.

#### Section 4: First Aid Procedures

Procedures

Flush eyes with water if dust from grinding causes irritation.

Note to Physicians (if available)

None

## **Section 5: Fire Fighting Measures**

Flammable Properties

Flash Point: Not Applicable

Flammable Limits: LEL: Not Applicable UEL: Not Applicable

Dusts from processing operations may be combustible.

Extinguishing Media

Water, dry chemical, foam, or carbon dioxide

Fire Fighting Instructions

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 quench smoldering elastomers. Product may melt after ignition, to form flammable liquids.

Burning produces intense heat, dense smoke, and toxic gases, such as isocyanates, carbon monoxide, oxides of nitrogen, and traces of hydrogen cyanide. Do not breathe smoke. Smoke released, even after fire is out, may contain high concentrations of isocyanates hundreds of feet away. Do not remove self-contained breathing apparatus until smoke is gone and area is completely ventilated with clean air.

#### **Section 6: Accidental Release Measures**

Safeguards (Personal)

None

Spill Clean Up

Pick up and handle as any other solid material.

# **Section 7: Handling and Storage**

Handling

Cutting elastomer by hot wire or hot branding, or other thermal processing can form decomposition products. Local exhaust ventilation should be used to remove any fumes. If isocyanates or curatives are emitted, ventilation must be sufficient to ensure levels below the TLV for TDI (0.005 PPM TWA/0.02 PPM STEL), MDI (0.005 PPM TWA), other isocyanates, or curatives. Also, see respiratory protection below.

#### Storage

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

## **Section 8: Exposure Controls, Personal Protection**

**Engineering Controls** 

Local exhaust recommended for thermal processing operations, as required to reduce dust, gas, and vapor fume exposure below OSHA levels.

Personal protective Equipment

Eye/Face Protection: None required in normal use. For grinding operations, use safety goggles, and face shield.

Skin Protection

None required in normal use.

Respiratory Protection (specify type)

Use NIOSH approved respirator. For grinding operations - wear a dust respirator. If generating gas, vapor, and fumes from hot wire, hot knife, or other thermal processing operations - wear an air-purifying respirator with organic cartridge or supplied-air respirator if ventilation is inadequate.

General Protection

None required.

### **Section 9: Physical and Chemical Properties**

Appearance and Odor

Solid, no odor.

Physical State

Solid

PΗ

N/A

Vapor Pressure

N/A

Vapor Density

N/A

**Boiling Point** 

N/A

Freezing /Melting Point Melts 380°F - 450°F May degrade above 300°F (150°C)

Solubility in Water Insoluble

Specific Gravity 1.05 - 1.25

**Evaporation Rate** 

N/A

Other None

Section 10: Stability and Reactivity

o Unstable x Stable Conditions to Avoid: None

Incompatibility With Other Material Strong acids or bases

Hazardous Decomposition or By-products

Decomposition through burning produces fumes consisting of organic particulate, gaseous hydrocarbons, carbon dioxide, carbon monoxide and may contain traces of toluene diisocyanate (TDI) or diphenylmethane diisocyanate (MDI), other isocyanates, curatives, hydrogen cyanide, acrolein and oxides of nitrogen.

Hazardous Polymerization May Occur Hazardous Polymerization Will Not Occur Conditions to Avoid: o Hazardous Polymerization May Occur

x Hazardous Polymerization Will Not Occur

Conditions to Avoid: None

# **Section 11: Toxicological Information**

Toxicological Data

Under normal conditions not applicable.

# **Section 12: Ecological Information**

**Ecological Data** 

Under normal conditions not applicable.

# **Section 13: Disposal Considerations**

Waste Disposal

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

# **Section 14: Transport Information**

Shipping Information

Not regulated as a hazardous material.

# **Section 15: Regulatory Information**

U.S. Federal Regulations

**TSCA** 

Health & Safety Reporting List: N/A
Chemical Test Rules N/A
Section 12b N/A
TSCA Significant New Use Rule N/A

# CERCLA Hazardous Substances and corresponding RQs N/A

### SARA

Section 302 Extremely Hazardous Substances N/A SARA Codes N/A Section 313 N/A

Clean Air Act: N/A

Clean Water Act: N/A

U.S. State Regulations **STATE:** N/A

# California Prop 65 N/A

International Regulations

**European/International Regulations N/A** 

**European Labeling in Accordance with EC Directives** 

**Hazard Symbols:** 

Risk Phrases:

Safety Phrases:

**WGK (Water Danger/Protection)** 

Canada - DSL/NDSL N/A Canada - WHMIS N/A

Section 16: Other Information Additional Information None

Note: This information is believed to be accurate and represents the information currently available. However, no warranty is expressed or implied with respect to such information, and no liability resulting from its use is assumed. Users should make their own investigations to determine the suitability of the information for their particular purposes.