



MATERIAL SAFETY DATA SHEET

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

Company Name: Precision Brand Products, Inc.

Material Name: Cured Polyurethane Trade Name: Sof'Shoe® Product Code: 49

Section 1: CHEMICAL PRODUCTS / COMPANY IDENTIFICATION

Material Identification: Cured Polyurethane

Company Identification Precision Brand Products, Inc.
2250 Curtiss Street
Downers Grove, IL 60515 USA

Date Prepared: 06/24/2013

Production Information Telephone Number: 630-969-7200

Transport Emergency Telephone Number: Chemtrec 800-424-933 USA & Canada
202-483-7616 International

Medical Emergency Telephone Number:

Section 2: HAZARD IDENTIFICATION

Emergency Overview

Acute: Fumes from hot work on or near polyurethane products 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.

OSHA Regulatory Status

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.

Potential Health Effects

Routes of Exposure: Skin and Inhalation
Lengths of Exposure: Single, Repeated, and Lifetime
Severity of Effect: Severe
Target Organs: Lung and Skin

Effects/Symptoms

See acute and chronic effects in Emergency Overview.

Carcinogenicity

Cured polyurethane is not listed as a carcinogen.

Section 3: COMPOSITION, INFORMATION ON INGREDIENTS

Hazardous Components (Specific Chemical Identity: Common Name(s))	% (Wt./Vol.)	(Optional)	CAS#
None	N/A	N/A	N/A

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

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. Products 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

None in normal use. Thermal degradation may occur at temperatures as low as 150°C (300°F), releasing hazardous gas, vapor or fumes.

Storage

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

Section 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Permissible Exposure Limits (PELS TLVs BEIs)

There are no applicable exposure limits for cured polyurethane materials. There are limits for TDI and MDI which may be released under some heat processing activities.

The current OSHA Permissible Exposure Limit for both TDI and MDI is 0.02 ppm (Ceiling). A ceiling limit is not to be exceeded.

The current American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV) for TDI is 0.005 ppm for an 8 hour TWA, with a 15 minute Short Term Exposure Limit (STEL) of 0.02 ppm. TDI is also indicated as a "Sensitizer" by ACGIH. The 8 hour TLV for MDI is 0.005 ppm TWA. The TLV for TDI is under the 2006 ACGIH notice of intended changes. The proposed change is to lower the TLV for TDI to 0.001 ppm for an 8 hour TWA, with a 15-minute STEL of 0.003 ppm. The proposal for TDI also recommends adding a "Skin" notation and making the cancer designation "A3 – Confirmed Animal Carcinogen with Unknown Relevance to Humans".

Precision Brand Products, Inc.
MSDS: Sof' Shoe® Shim

Personal Protective Equipment

Eye/Face Protection: None required in normal use. For grinding operations, use safety goggles, and a face shield. **Skin Protection:** None required in normal use. **Respiratory Protection:** Use NIOSH approved respirator. For low temperature grinding operations – wear a dust respirator. If generating gas, vapor, and fumes from hot wire, hot knife, or other thermal processing operations (including potentially some grinding operations) – wear an air-purifying respirator with organic cartridge or supplied-air respirator if ventilation is inadequate. Replace cartridge according to respirator manufacturer's changeout schedule.

General Protection

None required

Engineering Controls

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor

Solid, no odor

Physical State

Solid

PH

N/A

Flammable Properties

Dusts from processing operations may be combustible.

Flash Point: Not applicable

Flammable Limits: LEL: Not Applicable. UEL: Not Applicable

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

Stable

Incompatibility With Other Materials

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 Reaction, Conditions to Avoid:

Hazardous reactions will not occur. Avoid direct contact with flame or other heat sources that can result in release of fumes.

Section 11: TOXICOLOGICAL INFORMATION

Toxicological Data

Under normal circumstances not applicable

Section 12: ECOLOGICAL INFORMATION

Ecological Data

Under normal circumstances 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)

Precision Brand Products, Inc.
MSDS: Sof' Shoe® Shim

Canada – DSL/NDSL: N/A
Canada – WHMIS: N/A

Section 16: OTHER INFORMATION

Additional Information

None

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