

# MATERIAL SAFETY DATA SHEET

## SPAL-PRO 2000 CARTRIDGE POLYOL COMPONENT

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### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Spal-Pro 2000 Polyol

PRODUCT DESCRIPTION: Polyol part of a two-component polyurethane elastomer

MANUFACTURED BY

Metzger McGuire Co., Inc.

557 Route 3-A

Bow, NH 03304

800-223-6680 www.metzgermcguire.com

24 HOUR EMERGENCY TELEPHONE NUMBER

Chemtrec: United States 800-424-9300

International 703-527-3887

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS</u>
6-Methyl-2,4-Bis(Methylthio)Phenylene-1,3-Diamine	10-15	106264-79-3
N,N,N',N'-Tetrakis(2-Hydroxylpropyl)Ethylendiamine	<= 10	102-60-3
Polyether Polyol	75-85	9082-00-2

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### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Gray or black liquid.

IMMEDIATE CONCERNS: Irritating to eyes, skin, gastrointestinal tract, and respiratory system.

#### POTENTIAL HEALTH EFFECTS

EYES: May cause moderate irritation.

SKIN: May cause mild to moderate irritation.

INGESTION: Ingestion may cause irritation of the gastrointestinal tract and gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting, lethargy, or diarrhea.

INHALATION: Inhalation of vapors or mist at concentrations above the TLV can cause respiratory tract irritation. (nose, throat, lungs)

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Contact may cause moderate irritation consisting of transient redness, swelling, and mucous membrane discharge to the conjunctiva.

**SKIN:** Contact may cause mild irritation consisting of transient redness and/or swelling.

**INGESTION:** Ingestion may cause gastrointestinal discomfort.

**INHALATION:** High concentrations may be irritating to nose, throat, and lungs.

**ROUTES OF ENTRY:** Inhalation, skin contact, eye contact, ingestion.

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#### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN:** Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Wash clothing thoroughly before reuse. Discard shoes. Get medical attention if swelling or redness occurs, or if irritation persists after being washed.

**INGESTION:** Do not induce vomiting. Never give anything by mouth to a drowsy or unconscious person. If the individual is conscious, rinse mouth with water. Give 1 to 2 cups of water to drink. Seek immediate medical attention.

**INHALATION:** Remove individual from exposure, keep warm and at rest. If respiratory irritation develops, get medical attention.

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#### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** > 148.9 °C (300 °F) - Closed Cup

**EXTINGUISHING MEDIA:** Dry Chemical, Carbon Dioxide, Alcohol Foam, Water Fog or Spray. Water or foam may cause frothing if liquid is burning, but it still may be a useful extinguishing agent if carefully applied to the fire.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, nitrogen and sulfur

**FIRE FIGHTING PROCEDURES:** Isolate fuel supply from fire. Use water spray to cool fire-exposed surfaces and containers. Avoid spreading burning liquid with water used for cooling purposes. Fire fighters should wear self-contained breathing apparatus in addition to emergency fire fighting protective clothing.

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## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Clean up spills wearing proper personal protective equipment. (See section 8) Absorb with dry chemical absorbent, earth, sand, or any other inert material. Place in a chemical waste container.

**LARGE SPILL:** Create a dike or trench to contain materials. Prevent entry into waterways, sewers, basements or confined areas. Clean-up personnel should wear appropriate personal protection equipment. (see section 8) May be a slipping hazard. Absorb with dry chemical absorbent, earth, sand, or any other inert material. Place in a chemical waste container. Wash residues from area with soap and water and rinse. Contaminated water should be retained and not allowed to flow into ground or surface water.

**COMMENT:** Dispose of by any standard method of disposal in accordance with good industrial practice and in compliance with federal, state, and local environmental protection regulations.

## 7. HANDLING AND STORAGE

**HANDLING:** Wear proper personal protective equipment. Use in a well ventilated area. Avoid smoking, bare lights, or ignition sources. Avoid physical damage to cartridge. Practice good hygiene procedures.

**STORAGE:** Protect from atmospheric moisture. Do not reseal if contaminated. Store indoors in a cool, well-ventilated area.

**STORAGE TEMPERATURE:** 15.6 °C – 48.9 °C (60 °F – 120 °F)

**SHELF LIFE:** 6 months

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE GUIDELINES:**

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

<u>CHEMICAL NAME</u>		<u>EXPOSURE LIMITS</u>					
		<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>SUPPLIER OEL</u>	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
6-Methyl-2,4-Bis(Methylthio) Phenylene-1,3-Diamine	<b>TWA</b>	NE	NE	NE	NE	NE	NE
N,N,N',N'-Tetrakis (2-Hydroxypropyl)Ethylendiamine	<b>TWA</b>	NE	NE	NE	NE	NE	NE

**KEY:**

NE = Not Established

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields.

**SKIN:** Wear impervious gloves and clothing to cover exposed skin.

**RESPIRATORY:** If adequate engineering controls are not feasible, an approved respirator must be worn.

**WORK HYGIENIC PRACTICES:** Follow good normal hygiene practices. Avoid contact with skin. Avoid eating, drinking, or smoking while using this product. Wash hands thoroughly after use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Slightly musty

**COLOR:** Gray or black

**BOILING POINT:** > 148.9 °C (300 °F)

**FREEZING POINT:** < 0 °C (32 °F)

**SOLUBILITY IN WATER:** Partially soluble

**SPECIFIC GRAVITY:** 1.050 – 1.070 (water = 1) at 23.3 °C (74 °F)

**VISCOSITY:** 1350 – 1550 Centipoise at 23.3 °C (74 °F)

### 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Temperature extremes. Container contamination. Moisture.

**STABILITY:** Stable under recommended storage conditions.

**POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** By fire: Carbon Monoxide, Carbon Dioxide, Oxides of Nitrogen, Oxides of Sulfur.

**INCOMPATIBLE MATERIALS:** Moisture, strong oxidizing agents, temperature extremes.

### 11. TOXICOLOGICAL INFORMATION

	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
6-Methyl-2,4-Bis(Methylthio)Phenylene-1,3-Diamine	> 1515 mg/kg	> 2000 mg/kg	
N,N,N',N'-Tetrakis(2-Hydroxylpropyl)Ethylenediamine	3280 mg/kg	> 2000 mg/kg	

EYE EFFECTS: Moderate irritant

SKIN EFFECTS: Mild to moderate irritant

**CARCINOGENICITY**

IARC: Not classified as a carcinogen

NTP: Not classified as a carcinogen

OSHA: Not classified as a carcinogen

ACGIH: Not classified as a carcinogen

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**12. ECOLOGICAL INFORMATION**

COMMENTS: No data.

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**13. DISPOSAL CONSIDERATIONS**

DISPOSAL METHOD: Disposal should be in accordance with local, state, provincial or national regulations.

RCRA HAZARD CLASS: This material is not a hazardous waste under RCRA 40 CFR 261.

COMMENTS: The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured down drains, sewers or waterways.

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**14. TRANSPORT INFORMATION**

DOT (DEPARTMENT OF TRANSPORTATION)  
Not regulated

AIR (IATA)  
Not regulated

VESSEL (IMO/IMDG)  
Not regulated

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**15. REGULATORY INFORMATION**

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

311/312 HAZARD CATEGORIES: Immediate, Delayed

313 REPORTABLE INGREDIENTS: This product does not contain any chemical substances that exceed their *de minimis* reporting levels.

**CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)**

This product does not contain any chemical substances that are subject to the reporting requirements of CERCLA.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

TSCA REGULATORY: All ingredients are on TSCA inventory.

RCRA STATUS: Not hazardous if discarded in its purchased form. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24).

OSHA HAZARD COMM. RULE: This material is classified as a hazardous material under the criteria outlined in the OSHA Hazard Communication Standard (HCS) at 29 CFR 1910.1200.

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## 16. OTHER INFORMATION

HMIS RATING: Health – 2\*, Flammability - 1, Physical Hazard - 0

HMIS RATING NOTES: If present, the asterisk signifies a chronic health hazard.

Rating system: 0 = low hazard to 4 = high hazard

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**KEY LEGEND INFORMATION:**

ACGIH - American Conference of Governmental Industrial Hygienists

EPA - Environmental Protection Agency

IARC - International Agency for Research on Cancer

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TWA - Time Weighted Average

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DATE ISSUED: August 20, 2009