

MATERIAL SAFETY DATA SHEET

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SPAL-PRO 2000 "A"

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SPAL-PRO 2000 "A"

PRODUCT DESCRIPTION: Part A of a two component poured polyurethane elastomer

PRODUCT CODE: SPAL-PRO 2000 "A"

PRODUCT FORMULATION NAME: SPAL-PRO 2000 "A"

CHEMICAL FAMILY: polyol

MANUFACTURER

Metzger McGuire Co. Inc.

557 Route 3-A

Bow, NH 03304

Product Stewardship: 800-223-6680

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE	5 - 15	106264-79-3	403-240-8
N,N,N',N'-TETRAKIS(2-HYDROXYLPROPYL)ETHYLENEDIAMINE	<10	102-60-3	
Polyether Polyol	70 - 85	9082-00-2	--

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Gray viscous liquid

IMMEDIATE CONCERNS: May cause skin, eye, and respiratory tract irritation.

POTENTIAL HEALTH EFFECTS

EYES: "B" Component liquids, vapors, or mists are irritating to the eyes and can cause stinging, burning, lachrymation or tearing.

SKIN: Exposure of skin to this product may cause minor irritation, reddening, swelling, or blistering. In some individuals, prolonged contact may cause rash resulting in dermatitis.

INGESTION: Ingestion could result in irritation and corrosive action in the mouth, stomach tissue and digestive tract. These irritations would likely be followed by vomiting and cramps.

INHALATION: When breathing high concentration of vapors for extended periods of time without adequate ventilation, a person may experience dizziness due to a lack of oxygen, and should leave the area immediately. Respiratory track irritation may also occur.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Can cause severe eye irritation experienced as pain with excess blinking, and tear production, and seen as extreme redness and swelling of the eye and chemical burns of the eye. May cause severe eye damage.

SKIN: Causes severe irritation with pain, severe excess redness and swelling with chemical burns, blister formation, and possible tissue destruction.

SKIN ABSORPTION: None.

INGESTION: None.

INHALATION: Vapors or mist, especially as generated from heating the material or as from exposure in poorly ventilated areas or confined spaces, are irritating and cause nasal discharge, coughing, and discomfort in nose and throat.

ACUTE TOXICITY: Inhalation may result in respiratory irritation. Ingestion may result in gastric disturbances.

CHRONIC: There are no known chronic effects associated with this material.

CARCINOGENICITY: None.

MUTAGENICITY: None.

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: None.

TERATOGENIC EFFECTS: None.

MEDICAL CONDITIONS AGGRAVATED: No data available. Contact Env. Dept.

ROUTES OF ENTRY: Skin, eyes, and lungs.

TARGET ORGAN STATEMENT: Not yet Known.

CANCER STATEMENT: Not yet Known.

IRRITANCY: Not yet Known.

SENSITIZATION: None known.

WARNING CAUTION LABELS: Corrosive to the eyes and may cause severe damage including blindness.

COMMENTS HEALTH: No data available. Contact Env. Dept.

HEALTH HAZARDS: No data available. Contact Env. Dept.

PHYSICAL HAZARDS: None.

COMMENTS: None.

4. FIRST AID MEASURES

EYES: Flush with copious quantities of clean running water immediately and for at least 15 minutes. Follow with ophthalmic boric acid solution and obtain medical attention immediately.

SKIN: Remove contaminated clothing and shoes. Wash affected areas with soap and water. If swelling or reddening occurs, obtain medical attention.

INGESTION: Give affected person one or two glasses of water and induce vomiting. Obtain medical attention.

INHALATION: Remove person to fresh air. Administer oxygen or artificial respiration if necessary. Obtain medical attention.

ANTIDOTES: Not yet Known.

NOTES TO PHYSICIAN: Exposures require specialized first aid with contact and medical follow-up.

ADDITIONAL INFORMATION: None.

COMMENTS: None.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: > (300°F)ASTM D93

AUTOIGNITION TEMPERATURE: Not Determined

FLAMMABLE CLASS: Material will burn in a fire.

FLAME PROPAGATION OR BURNING RATE OF SOLIDS: Not yet Determined.

GENERAL HAZARD: None.

EXTINGUISHING MEDIA: Dry Chemical, Carbon Dioxide, Chemical Foam, Water Fog or spray.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, Carbon dioxide, Nitrous Oxide, and HCN.

OTHER CONSIDERATIONS: None.

EXPLOSION HAZARDS: Closed containers could rupture explosively at elevated temperatures generated under fire conditions.

During a fire, gases of a highly toxic nature may be generated by thermal decomposition or combustion.

FIRE FIGHTING PROCEDURES: Use water spray to cool fire-exposed surfaces and containers. Fire fighters should wear self-contained breathing apparatus in addition to emergency fire fighting protective clothing.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

AUTOIGNITION TEMPERATURE: Not Established.

FLAMMABLE LIMIT: Not Established.

FLASHPOINT: > 300 degrees F. (ASTM D-93 Closed Cup)

FIRE EXPLOSION: Not Established.

SENSITIVE TO STATIC DISCHARGE: None Expected.

SENSITIVITY TO IMPACT: None Expected.

HAZARDOUS DECOMPOSITION PRODUCTS: None Expected.

COMMENTS: None.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: None.

LARGE SPILL: Absorb spilled material with saw dust, dirt, or other absorbent material. Sweep or shovel into open top containers.

Hose down spill area with detergent and water. Remove containers to a safe place and cover.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: None.

LAND SPILL: None.

AIR SPILL: None.

GENERAL PROCEDURES:

Clean-up crews should wear protective clothing, gloves, boots, and goggles. Respiratory protection is also recommended.

Absorb spilled material with saw dust, dirt, or other absorbent material. Sweep or shovel into open top containers. Hose down spill area with detergent and water. Remove containers to a safe place and cover.

RELEASE NOTES: None.

SPECIAL PROTECTIVE EQUIPMENT: None.

COMMENTS: 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

GENERAL PROCEDURES: Precautions: Keep containers tightly sealed. Keep containers away from heat source and/or open flames. Do not store containers in open sunlight.

HANDLING: Use with adequate ventilation.

STORAGE: Keep container closed when not in use.

STORAGE TEMPERATURE: (55°F) minimum to (100°F) maximum

LOADING TEMPERATURE: (55°F) minimum to (100°F) maximum

LOADING/UNLOADING VISCOSITY: Not Available

STORAGE PRESSURE: Not Available

STORAGE PRESSURE: None.

STORAGE TEMPERATURE: None.

LOADING TEMPERATURE NOTES: None.

SHELF LIFE: 6 months.

SPECIAL SENSITIVITY: None.

ELECTROSTATIC ACCUMULATION HAZARD: No data available. Contact Env. Dept.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

		<u>EXPOSURE LIMITS</u>				
		<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>Supplier OEL</u>
		<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>
6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE	STEL			[1]		

N,N,N',N'-TETRAKIS(2-HYDROXYLPROPYL)ETHYLENEDIAMINE

OSHA TABLE COMMENTS:

1. Not established

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) and a face shield.

SKIN: Wear rubber gloves, coveralls, and boots.

RESPIRATORY: NOISH approved organic vapor respirator for exposure of less than one hour. An positive-pressure air-supplied respirator must be worn during spray applications or whenever long-term exposure is anticipated.

PROTECTIVE CLOTHING: Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

WORK HYGIENIC PRACTICES:

Avoid contact with skin as required by good normal hygiene practices.

OTHER USE PRECAUTIONS: Safety showers and eye wash stations should be available. Employees should be trained concerning the safe use of product.

COMMENTS: Other Protective Equipment: Safety showers and eye wash stations.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: None.

APPEARANCE: Liquid.

COLOR: Gray

pH: Not Available

PERCENT VOLATILE: None

VAPOR PRESSURE: Not Established

VAPOR DENSITY: Not Available

BOILING POINT: Not Established

FREEZING POINT: Not Determined

MELTING POINT: Not Applicable

POUR POINT: Not available

SOLUBILITY IN WATER: Partially Soluble

EVAPORATION RATE: Not Established

DENSITY: 1.03 at (74°F)

SPECIFIC GRAVITY: 1.03 to 1.09 (water=1)

VISCOSITY: 1350 to 1520Centipoise at (74°F) Brookfield

MOLECULAR WEIGHT: Not Determined

(VOC): 0

OXIDIZING PROPERTIES: Not Established.

COMMENTS:

PHYSICAL STATE: None.

EVAPORATION RATE: Slower than ether.

DENSITY: Liquid Density: 8.78 lbs./gallon

COMMENTS: End Product Precautions:

This product, when properly mixed with a polyurethane system "A" componet or poly,eric diisocyanate, will create a polyurethane product. Exposed polyurthane is considered to be a fire hazard and should never be applied without an approved thermal barrier.

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Avoid high temperatures. Avoid freezing.

STABILITY: Stable under normal conditions.

POLYMERIZATION: None.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

INCOMPATIBLE MATERIALS: Strong oxidizing or reducing agents.

COMMENTS: Conditions To Avoid: Temperature extremes. Container contamination.

11. TOXICOLOGICAL INFORMATION

ACUTE

No applicable data.

EYE EFFECTS: The vapor, aerosol, and liquid are irritant.

SKIN EFFECTS: Not yet Known.

SENSITIZATION: No applicable data.

TARGET ORGANS: No data available. Contact Env. Dept.

SUBCHRONIC: No applicable data.

CHRONIC: No applicable data.

CARCINOGENICITY:

IARC: Not Established.

NTP: Not Established.

OSHA: Not Established.

CARCINOGENICITY COMMENTS: None.

MUTAGENICITY: No applicable data.

SYNERGISTIC MATERIALS: None known.

REPRODUCTIVE EFFECTS: No applicable data.

NEUROTOXICITY: Not Established.

TERATOGENIC EFFECTS: Not Established.

GENERAL COMMENTS: None.

COMMENTS: None.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No applicable data.

ECOTOXICOLOGICAL INFORMATION: No applicable data.

DISTRIBUTION: No applicable data.

CHEMICAL FATE INFORMATION: No applicable data.

GENERAL COMMENTS: No applicable data.

COMMENTS: None.

13. DISPOSAL CONSIDERATIONS

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

FOR LARGE SPILLS: None.

PRODUCT DISPOSAL: None.

RCRA/EPA WASTE INFORMATION: None.

RCRA HAZARD CLASS: None.

GENERAL COMMENTS: None.

COMMENTS: None.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Polyalkylamines, N.O.S.

PRIMARY HAZARD CLASS/DIVISION: Not Regulated

BULK FREIGHT CLASS: Compound Resin

OTHER SHIPPING INFORMATION: Freight Class Drummed: Liquid Plastic Material - NOIBN

CANADA TRANSPORT OF DANGEROUS GOODS

PROPER SHIPPING NAME: Polyalkylamines, N.O.S.

TECHNICAL NAME: Tetrahydroxypropylethylenediamine

PRIMARY HAZARD CLASS/DIVISION: Not Regulated

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Polyalkylamines, N.O.S.

TECHNICAL NAME: Tetrahydroxypropylethylenediamine

PRIMARY HAZARD CLASS/DIVISION: Not Regulated

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Polyalkylamines, N.O.S.

TECHNICAL NAME: Tetrahydroxypropylethylenediamine

PRIMARY HAZARD CLASS/DIVISION: Not Regulated

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



DOT Class 9

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: No data available. Contact Env. Dept.

FIRE: NO PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES CHRONIC: YES

313 REPORTABLE INGREDIENTS: Not Listed

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: Not Established.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: None.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All of the components of this product are either listed on the TSCA Inventory or are not subject to the notification requirements(exempt).

RCRA STATUS: NA = Not Applicable

OSHA HAZARD COMM. RULE: None.

CLEAN WATER ACT: None.

NATIONAL RESPONSE CENTER: None.

CARCINOGEN: None.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): NA = Not Applicable

SDWA (SAFE DRINKING WATER ACT): NA = Not Applicable

FDA (FOOD AND DRUG ADMINISTRATION): NA = Not Applicable

DEA (DRUG ENFORCEMENT PRECURSOR & ESSENTIAL CHEMICALS) LISTED SUBSTANCE: No applicable data.

CLEAN AIR ACT

40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: Not Established.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR 1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: Not Established.

CANADA

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM): This material is a marine pollutant.

WHMIS CLASS: Class D-2B: Material causing other toxic effects (TOXIC).

CANADA INGREDIENT DISCLOSURE LIST: Not Available.

CANADIAN ENVIRONMENTAL PROTECTION ACT: Not Available.

DOMESTIC SUBSTANCE LIST (INVENTORY): Not Established.

EUROPEAN COMMUNITY

EUROPEAN COMMUNITY REGULATORY: None known.

MEXICO None.

STATE REGULATIONS No data available. Contact Env. Dept.

CALIFORNIA PROPOSITION 65: None.

REGULATIONS

STATE REGULATIONS: No data available. Contact Env. Dept.

LOCAL REGULATIONS: No data available. Contact Env. Dept.

COMMENTS: None.

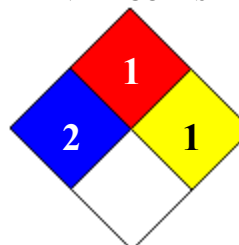
16. OTHER INFORMATION

REVISION SUMMARY New MSDS

HMIS RATING

HEALTH:	*	2
FLAMMABILITY:		1
PHYSICAL HAZARD:		1
PERSONAL PROTECTION:		

NFPA CODES



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