SAFETY DATA SHEET

Metzger/McGuire Co. **Polyether Polyol**

1. Identification

1.1 Product Name: Spal Pro RS-88 Part A Polyol
1.2 Recommended Use: Component of a Control Joint Polyurethane System
Issue Date: 3/28/15
Supersedes: 6/20/13
Reason for revision: Update hazard statements
1.3 Manufacturer: Metzger/McGuire Co.
PO BOX 2217
CONCORD, NH 03302-2217
PH: (800) 223-6680
FAX: (603) 224-6020
Email: info@metzgermcguire.com

1.4 In Case of Emergency: INFOTRAC: 1-800-535-5053
Outside the US and Canada, call 1-352323-3500

2. Hazards Identification

2.1 According to 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification: May cause respiratory tract, eye and skin irritation.

2.2 Label Elements:
Hazard pictograms:

Signal Word  **Caution**

2.3 Hazard Classification according to EC No. 1272/2008 (CLP/GHS)
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

2.4 Precautionary statements:
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing /eye protection / face protection.
P302 + P352 **IF ON SKIN:** Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice / attention.

Contains: Polyether polyol
See toxicological information (Section 11)
GENERAL INFORMATION: Read the entire SDS for a more thorough evaluation of the hazards.

3. Composition information

Name

3.1 Substances Polyether polyol mixture
3.2 Mixture: Concentration of composition has been withheld as a Trade Secret.

4. First Aid Measures

4.1 Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of running tepid water for 15 minutes, occasionally lifting the upper and lower eyelids. If effects occur get medical attention as appropriate.

Skin contact: Wash immediately with warm soapy water. Get medical attention if irritation develops. Was clothing or personal items that cannot be decontaminated.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen clothing such as collar, tie, belt or waistband.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately. **Notes to physician:** No specific treatment. Treat symptomatically. Practically non-toxic if swallowed.

4.2 Symptoms of exposure:

Eye contact: Irritation, redness and pain.
Skin contact: Irritation, redness, itching.
Inhalation: Dizziness, difficulty breathing if fumes are highly concentrated.
Ingestion: May cause irritation.

5. Fire-Fighting Measures

NFPA Flammable classification: Combustible liquid IIIB
Flash point: >190^{o}C (open cup)

5.1 Extinguishing Media

Suitable: Water fog, carbon dioxide, foam, dry chemical.
Not Suitable: None

5.2 Special hazards: Combustion products may include: carbon monoxide, carbon dioxide.

5.3 Special protective actions for fire fighters: Use protective fire fighting clothing and positive pressure self-contained breathing apparatus (SCBA) to protect against potential harmful and/or irritating fumes. Do not use high volume water jet as this may spread the area of the fire.

6. Accidental Release Measures

6.1 Personal precautions: Isolate area; keep unnecessary and unprotected personnel away from spill area. Avoid contact with skin, eyes and clothing. Use appropriate safety equipment. No health effects expected from the cleanup of this material if contact can be avoided.

6.2 Environmental precautions: Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

6.3 Methods for cleaning up: Contain and absorb large spills with an inert, non-flammable absorbent carrier (such as earth, sand or clay). Shovel into labeled open-top drums or plastic bags for further decontamination if necessary. Wash the spillage area clean with liquid decontaminant. (See section 13 for disposal considerations). Notify applicable government authorities if release is reportable.

7. Handling and Storage

7.1 Precautions for safe handling: Avoid personal contact with the product. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded. Regularly monitor the efficiency of the ventilation system. Avoid breathing aerosols, mists and vapors. (See section 8 Exposure control for details). Keep stocks of de-contaminant readily available.

7.2 Storage: Keep containers tightly closed and store in a cool, dry well ventilated area.
Suitable containers include HDPE, LDPE, carbon steel and stainless steel.

8. Exposure Controls/Personal Protection

8.1 Exposure parameters: None established.

8.2 Engineering controls: Ventilation through local exhaust if appropriate.

Eye/face protection: Safety glasses, goggles, face mask as appropriate.

Skin & hand protection: Protective clothing as necessary to guard against product contact. PVC, neoprene or nitrile rubber gloves, safety shoes.

Respiratory protection: Not needed under normal use conditions under adequate ventilation.

Other protective equipment: Eye wash stations and emergency showers should be available. The type and degree of personal protective equipment will depend on the specific work operation.

8.3 Environmental exposure controls: None established.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties.

Appearance	: Liquid
Color	: As supplied
Type of odor	: Faint odor
Vapor pressure	: <1 mm Hg) 20^{o}C
Vapor density	: No data available
Boiling point	: >200^{o}C
Specific gravity	: 1.02-1.05 grams / cc
Water solubility	: Soluble
pH	: 10-12

10. Stability and Reactivity

10.1 Reactivity: Reacts with isocyanates.

10.2 Stability: Stable at room temperature.

10.3 Hazardous polymerization: Will not occur by itself.

10.4 Conditions to avoid: No specific data.

10.5 Incompatible materials: See conditions to avoid.

10.6 Hazardous decomposition products: None produced under normal conditions of use.

11. Toxicological Information

11.1 Acute oral toxicity: LD50 (rat): >2,000 mg/kg.
11.2 Acute dermal toxicity: LD50 (rabbit) >2,000 mg/kg
11.3 Acute inhalation toxicity: The LC50 has not been determined.

12. Ecological Information

12.1 Toxicity to fish: LC50 (96 h) >100 mg/l. Data derived from products of similar composition.
12.2 Persistence and degradability: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

13. Disposal Considerations

13.1 Waste treatment methods: Do not dump into any sewers, on the ground, or into any body of water. Significant quantities of waste product residues should be processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local requirements.
Container disposal: Drain container of all residual material prior to disposal.

14. Transport Information Not classified as a dangerous good.

14.1 DOT Bulk and Non-Bulk: Not regulated for ground transport.
14.2 TDG Classification: Not regulated
14.2 ADR, IMDG Class: Not regulated
14.3 IATA-DGR Class: Not regulated

15. Regulatory Information

15.1 Safety health and environmental regulations/legislation:

OSHA Hazard Communication Standard, 29 CFR 1910.1200. Eye damage / irritation.
EPCRA 311/312 (40 CFR 370.2) (Hazard Categories): Chronic
SARA Title lll Section 313 (40CFR372): No reportable components.
CERCLA Status (40CFR302): No reportable quantity components.
TSCA Inventory status: Released / listed.
OSHA/NTP/IARC Carcinogen Status: Not listed.
Chemicals known to the state of California to cause Cancer or reproductive toxicity: None
Pennsylvania (Worker and Community Right-to-Know Act): Hazardous Substances List and/or Environmental Hazardous Substance List and/or Special Hazardous Substance List: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

16. Other Information

HMIS/NFPA rating: Health: 1 Fire: 1 Reactivity: 0

Label requirements: May cause respiratory tract, eye and skin irritation.

(Personal protective equipment selection is best assigned by the user after performing a hazard assessment on the product as it is to be used in the specific work process).

SAFETY DATA SHEET

Metzger/McGuire Co. **AMINE CATALYST**

1. Identification

1.1 Product Name: Spal-Pro RS-88 "Fast Pack"
1.2 Recommended Use: Component of an Polyurea System
Issue Date: 8/14/13
Supersedes: 11/9/12
Reason for revision: New format
1.3 Manufacturer:

Metzger/McGuire Co.
PO Box 227
Concord, NH 03302-2217
PH: (800) 223-6680
FAX: (603) 224-6020
Email: info@metzgermcguire.com

1.4 In Case of Emergency: INFOTRAC: 1-800-535-5053
Outside the US and Canada, call 1-352-323-3500

2. Hazards Identification

2.1 OSHA/HCS status: **This material is classified as Hazardous under OSHA Hazard Communication Standard** (29 CFR 1910.1200).
Classification: Warning: Irritating to the skin. May cause sensitization by skin contact. May be toxic if swallowed. May cause long-term adverse effects in the aquatic environment.
Skin contact: Irritating to the skin. May cause skin sensitization or an allergic reaction which becomes evident on re-exposure to this material.
Eye contact: Severely irritating to the eyes causing pain and redness.
Ingestion: Harmful if swallowed.
Inhalation: May be harmful if inhaled.

2.1 cont.

Classification according to EC No. 1272/2008 (CLP/GHS)

Health Hazard statements:

Skin Irritation	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction and sensitization.
Eye Irritation	H319	Causes serious eye irritation.
Inhalation	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335	May cause respiratory irritation.
Oral Toxicity	H302	Harmful if swallowed.
Aquatic	H402	Suspected to be harmful to aquatic life but no data is available on the product.

Classification according to Directive 67/548/EEC:

Xi Irritant	**R36/38, R43**
N	**R52/53**

2.2 Label Elements (EC 1272/2008)

Hazard pictograms:

Signal word: Warning **Warning**

2.3 Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection / face protection, protective gloves & clothing.
P284 In case of inadequate ventilation, wear respiratory protection.
P302 + P352 **IF ON SKIN:** Wash immediately with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice / attention.

See toxicological information (Section 11)

GENERAL INFORMATION: Read the entire SDS for a more thorough evaluation of the hazards.

3. Composition/Information on Ingredients

	Name	CAS number
3.1 Substances:	Tertiary Amine	Trade secret
Mixtures:	Trade Secret	

4. First Aid Response Measures

4.1 Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of running tepid water for 15 minutes, occasionally lifting the upper and lower eyelids. If effects occur get medical attention as appropriate.

Skin contact: Wash immediately with warm soapy water. Remove contaminated clothing. Get medical attention if irritation develops. Discard clothing or personal items that cannot be decontaminated.

Inhalation: Move exposed person to fresh air and keep comfortable for breathing..
If not breathing or if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen clothing such as collar, tie, belt or waistband.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately. **Notes to physician:** No specific treatment. Treat symptomatically. Call Poison Control Center if large quantities have been ingested.

4.2 Symptoms of exposure:

Eye contact: Irritation and redness, watering, pain.
Skin contact: Irritation, redness, itching.
Inhalation: Coughing, wheezing, dizziness, visual disturbances, difficulty breathing if fumes are concentrated.
Ingestion: May cause severe and permanent damage to mouth, throat and stomach.
Notes to physician: To the best of our knowledge, experiences about acute systemic health effects in human beings are not available. No specific antidote known. Symptomatic treatment. Symptoms may include irritation as noted above. Skin sensitization (allergy) may be evidenced by rashes, especially hives. Lung damage (scarring, bronchitis, emphysema) may be evidenced by shortness of breath, especially on exertion, and may be accompanied by chronic cough.

5. Fire-Fighting Measures

NFPA Flammable classification: Combustible liquid IIIB
Flash point: >200F

5.1 Extinguishing Media
Suitable: Carbon dioxide, Alcohol-resistant foam, dry chemical or sand, limestone powder.
Not Suitable: Water may result in the formation of very toxic aqueous solutions.

5.2 Special hazards: Combustion products may include: carbon oxides, nitrous gases and ammonia.

5.3 Special protective actions for fire fighters: Use protective fire fighting clothing and positive pressure self-contained breathing apparatus (SCBA) to protect against potential harmful and/or irritating fumes. Do not use high volume water jet as this may spread the area of the fire. Use water spray to cool unopened containers.

6. Accidental Release Measures

6.1 Personal precautions: May burn although not readily ignitable. Isolate area; keep unnecessary and unprotected personnel away from spill area. Avoid contact with skin, eyes and clothing. Use appropriate safety equipment. No health effects expected from the cleanup of this material if contact can be avoided.

6.2 Environmental precautions: Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

6.3 Methods for cleaning up: Contain and absorb large spills with an inert, non-flammable absorbent carrier (such as earth, sand or clay). Shovel into labeled open-top drums or plastic bags for further decontamination if necessary. Wash the spillage area clean with liquid decontaminant. (See section 13 for disposal considerations). Notify applicable government authorities if release is reportable.

7. Handling and Storage

7.1 Precautions for safe handling: Avoid personal contact with the product. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded. Regularly monitor the efficiency of the ventilation system. Avoid the formation and breathing of aerosols, mists and vapors. (See section 8 Exposure control for details). Keep stocks of de-contaminant readily available.

7.2 Storage: Keep containers tightly closed and store in a cool, dry well ventilated area.
Suitable materials: mild steel, stainless steel. Unsuitable: aluminum and copper.

8. Exposure Controls/Personal Protection

8.1 Exposure parameters: None established.

8.2 Engineering controls: Ventilation through local exhaust if appropriate.

Eye/face protection: Safety glasses, goggles, face mask as appropriate.

Skin & hand protection: Protective clothing as necessary to guard against product contact. PVC, neoprene or nitrile rubber gloves.

Respiratory protection: Not needed under normal use conditions under adequate ventilation.

Other protective equipment: Eye wash stations and emergency showers should be available. The type and degree of personal protective equipment will depend on the specific work operation.

8.3 Environmental exposure controls: None established.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties.

Appearance	: Liquid
Color	: Clear
Type of odor	: Ammoniacal
Vapor pressure	: 2.00 mmHg @ 21C
Vapor density	: N/D
Boiling point	: >300F (149C)
Flash point	: >200F
pH	: 10.2 (Alkaline)
Specific gravity	: 1.03 grams / cc
Water solubility	: Complete

10. Stability and Reactivity

10.1 Reactivity: Reacts with strong acids and strong oxidizing agents.
10.2 Stability: Stable under normal conditions.
10.3 Hazardous polymerization: Will not occur by itself.
10.4 Conditions to avoid: Keep away from heat and sources of ignition. Do not smoke.
10.5 Materials to avoid: Sodium hypochlorite, organic acids, copper, aluminum, zinc and galvanized surfaces, peroxides, dehydrating agents, reactive metals (e.g. sodium, calcium), oxidizing agents, materials with hydroxyl compounds.
10.6 Hazardous decomposition products: Nitric acid, ammonia, nitrogen oxides (NOx), carbon monoxide, carbon dioxide, aldehydes.

11. Toxicological Information

11.1 Acute oral toxicity: LD50 (rat): >3,000 mg/kg.
Acute dermal toxicity: LD50 (rabbit) >2,000 mg/kg. No deaths observed.
Acute inhalation toxicity: 1 hour, LC50 (rat) >10 mg/l.
Skin irritation: Moderate skin irritation.
Eye irritation: Moderate eye irritation.
Product sensitization: No Data.

12. Ecological Information

12.1 Toxicity to fish: No data available on the product.
12.2 Toxicity to microorganisms: No data available on the product.
12.2 Persistence and biodegradability: No data available on this product.

13. Disposal Considerations

13.1 Waste treatment methods: Do not dump into any sewers, on the ground, or into any body of water. Significant quantities of waste product residues should be processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local requirements. Incineration is the preferred method of disposal. 4
Container disposal: Drain container of all residual material prior to disposal.

14. Transport Information Not Dangerous Goods

14.1 DOT Road/Rail: Not regulated for transport. Label: None
14.2 Proper shipping name: Not regulated for transport
14.3 Sea transport IMDG: Not regulated for transport
14.8 Air Transport IATA/ICAO: Not regulated for transport

15. Regulatory Information

15.1 Safety health and environmental regulations/legislation:

EPA SARA Title lll Section 312 (40CFR370): Acute health hazard, Chronic health hazard.
EPA SARA Title lll Section 313 (40CFR372): Components above 'de minimus level, None.
US California Safe Drinking Water & Toxic Enforcement Act (Prop 65) None listed
TSCA Inventory status: Included in inventory.
EINECS: Included on inventory.
WHMIS Hazard Classification: Toxic Material Causing Other Toxic Effects.
OSHA/NTP/IARC Carcinogen Status: Not listed.

16. Other Information

HMIS/NFPA rating: Health: 2 Fire: 1 Reactivity: 0
(Personal protective equipment selection is best assigned by the user after performing a hazard assessment on the product as it is to be used in the specific work process).
Recommended uses and Restrictions: Identified uses: Catalyst for Polyurea Polyol