

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.

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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.

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3. Composition/Information on Ingredients

<u>Name</u>	<u>CAS number</u>
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.

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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

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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 (NO_x), 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

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15. Regulatory Information

15.1 Safety health and environmental regulations/legislation:

EPA SARA Title III Section 312 (40CFR370): Acute health hazard, Chronic health hazard.

EPA SARA Title III 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