

SAFETY DATA SHEET

Metzger/McGuire Co.

Polyurethane Prepolymer

1. Identification

1.1 Product Name: Rapid Refloor, Part B ISO

1.2 Recommended Use: Component of a Control Joint Polyurethane System. Caulking and sealing.

Issue Date: 8/26/13

Supersedes: 7/18/12

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 considered hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification: Warning: Harmful by inhalation. Irritating to the eyes and respiratory tract. May cause eye and skin irritation and is a potential respiratory sensitizer. The onset of respiratory symptoms may be delayed for several hours after exposure. Do not breathe vapor or mist. Reacts slowly with water to produce carbon dioxide which may rupture closed containers.

Skin contact: Prolonged or repeated exposure may cause skin irritation; may cause skin sensitization by skin contact. Wash thoroughly after handling.

Eye contact: Avoid contact with the eyes. May cause irritation; corneal injury is unlikely.

Ingestion: Single dose oral toxicity is considered to be very low; ingestion of a small amount is not expected to be harmful.

Inhalation: Over exposure to vapors is considered unlikely due to the physical properties of the material.

SAFETY DATA SHEET

Metzger/McGuire Co.

Polyurethane Prepolymer

2.2 Label Elements:

Hazard pictograms:



Signal word:

Warning

2.3 Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H320 Causes eye irritation.

H413 May cause long lasting harmful effects to aquatic life

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.

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

3. Composition/Information

Name

CAS number

3.1 Substances 4,4'-Diphenylmethane Diisocyanate

101-68-8

3.2 Mixture: Concentration of composition has been withheld as a Trade secret

3.3 Classification according to EC No. 1272/2008 (CLP/GHS): Xi, Skin and respiratory irritant. Respiratory sensitizer.

SAFETY DATA SHEET

Metzger/McGuire Co.

Polyurethane Prepolymer

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 immediately.

Skin contact: Wash immediately with warm soapy water. Corn oil may be more effective than soap and water. Get medical attention if irritation develops. Wash clothing before re-use. Discard 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. Get medical attention immediately. 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, 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: >200°C (P. M. closed 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, nitrogen oxides, hydrocarbons and HCN

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 or pump into labeled open-top drums or plastic bags for further decontamination if necessary. Apply lids loosely to avoid pressure build-up. Wash the spillage area clean with a mixture of water and non-ionic surfactant or a suitable liquid detergent. (See section 13 for disposal considerations). Notify applicable government authorities if release is reportable. CERCLA RQ for 4,4-MDI is 7,600 lbs.

SAFETY DATA SHEET

Metzger/McGuire Co.

Polyurethane Prepolymer

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 at 68-86F.

8. Exposure controls/personal protection

8.1 Exposure parameters: Diphenylmethane 4,4'-diisocyanate: ACGIH TLV (TWA): 0.005 ppm
Ceiling Limit Value: 0.02 ppm CEIL: 0.2 mg/m³

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: See Exposure parameters.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties.

Appearance	: Liquid
Color	: Clear, pail yellow
Type of odor	: Slight aromatic
Vapor pressure	: 0.53 kPa (4 mm Hg) 20C
Vapor density	: 8.5 (air=1)
Flash Point	: >200°C (Pensky-Martens Closed Cup)
Boiling point	: >200°C
Auto-ignition temperature	: >600°C
Specific gravity	: 1.1-1.2 grams / cc
Water solubility	: Insoluble, reacts slowly with water to liberate CO ₂ gas.
pH	: No data

SAFETY DATA SHEET

Metzger/McGuire Co.

Polyurethane Prepolymer

10. Stability and Reactivity

10.1 Reactivity: Reacts with water producing carbon dioxide gas. Exothermic reaction with materials containing active hydrogen groups.

10.2 Stability: Stable at room temperature.

10.3 Hazardous polymerization: May occur under certain conditions of storage and use..

10.4 Conditions to avoid: Water, alcohol, amines, strong bases and acids.

10.5 Incompatible materials: See conditions to avoid.

10.6 Hazardous decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons and HCN.

11. Toxicological Information

11.1 Acute Inhalation Toxicity: LC50: >360 mg/m³, 4 h (rat, Male/Female)

11.2 Acute Dermal Toxicity: LD50: >10,000 mg/kg (rabbit)

12. Ecological Information

12.1 Acute and Prolonged Toxicity: EC50 >500 mg/l in 24 hours (Daphnia).

LC50: >500 mg/l (Zebra fish) 24 hours.

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:

14.1 Land transport (DOT): Non-Regulated

14.2 Proper Shipping name: In quantities >7,600 lbs. Other regulated substances, liquid, n.o.s.
(contains 4,4'-Diphenylmethane Diisocyanate (MDI))

14.3 Hazard Division/Label: Class 9 UN/NA Number: NA3082 PG III

14.4 Reportable Quantity: 7,600 lbs.

14.5 Sea transport (IMDG) Non-Regulated

14.6 Air transport (ICAO/IATA) Non-Regulated

SAFETY DATA SHEET

Metzger/McGuire Co.

Polyurethane Prepolymer

15. Regulatory Information

15.1 Safety health and environmental regulations/legislation:

OSHA Hazcom Standard Rating: Hazardous.

SARA Title III Section 302 (40CFR355, Appendix A): Acute Health Hazard, Chronic Health Hazard. None.

SARA Section 311/312 Hazard Categories: Acute Health Hazard, Chronic Health Hazard.

CERCLA Status (40CFR302): RQ: 7,600 lbs.

TSCA Inventory status: Listed.

Canadian DSL Status: Reported/included.

Canadian WHMIS Classification: Class D-2A, D-2B: Material causing other toxic effects (very toxic).

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: No components listed.

Risk phrases: R36/38 Irritating to the eyes and skin.

R43 May cause sensitization by skin contact.

R52/53 May cause long term adverse effects in the aquatic environment.

Safety phrases: S3/7/9 Keep container tightly closed in a cool, well-ventilated place.

S24/25 Avoid contact with the skin and eyes.

S28 After contact with skin, wash immediately with plenty of soapy water.

S37/39 Wear suitable gloves and eye/face protection.

S61 Avoid release to the environment. Refer to special instructions/SDS.

16. Other Information

HMIS/NFPA rating: Health: 2* Fire: 1 Reactivity: 1 Personal Protection: H

Label requirements: Harmful by inhalation. Irritating to the eyes and respiratory system. May cause sensitization by inhalation and skin contact. A hyper-reactive response to even minimal concentrations of diisocyanates may develop in sensitized persons. (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). * = Chronic health hazard