

EMERGENCY CONTACTS

Call Chemtrec: USA: 1-800-424-9300
International: (703) 527-3887

Section 1. Product and Company Information

Product Name	Seal Pack Part A Resin for 2-Part Urethane Pourable Sealant	CHEM LINK INC. 353 E. Lyons Street Schoolcraft, MI 49087 U.S.A.
Chemical Family	Polyurethane	
Product Use	Sealant	
MSDS Prepared	10/23/04	Tel: 269-679-4440
MSDS Prepared by	Ed Zimmerman	Fax: 269-679-4448

Section 2. Composition / Information on Ingredients**HAZARDOUS INGREDIENTS**

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Concentration</u>
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This Product is not hazardous as defined in 29 CFR 1910.1200

Section 3. Hazards Identification**EMERGENCY OVERVIEW**Human Effects and Symptoms of Exposure

Routes of Entry – Dermal contact, Eye, Ingestion..

Acute Eye Contact – Direct contact may cause slight irritation.

Acute Skin Contact – Direct contact may cause slight irritation.

Skin Absorption – Not Toxic.

Acute Inhalation – Product is extremely low in volatility and therefore not likely to pose a problem from inhalation.

Acute Ingestion – May be harmful if ingested, not a likely route of entry.

Chronic Effects of exposure – No adverse effects anticipated from available information.

Medical Conditions Aggravated by exposure – Preexisting skin and eye disorders may be aggravated by direct contact to this product.

Carcinogenicity – There are no components in this product that are listed as a carcinogen by NTP, IARC, ACGIH or OSHA.

Section 4. First Aid Measures

First Aid For Eyes – Flush with large amounts of water for at least 15 minutes. Consult a physician if ill effects or irritation occurs.

First Aid For Skin – Clean product from affected area with soap and water.

First Aid for Inhalation – An unlikely route of entry. Remove to fresh air. Consult a physician.

First Aid For Ingestion – An unlikely route of entry. Consult a physician.

Section 5. Fire Fighting Measures

Special Fire Fighting Instructions – None. Full emergency equipment with self – contained breathing apparatus and full protective clothing should be worn by firefighters.
Extinguishing Media – Water, CO₂, Dry Chemical, Foam.
Unusual Fire and Explosion Hazards – None. This product is not considered flammable.
Flashpoint – Not applicable.
Upper Flammable Limit – Not applicable.
Lower Flammable Limit – Not applicable.
Autoignition temperature – Not applicable.
Sensitivity to Impact – Not applicable.
Sensitivity to Static Discharge – Not applicable.
Hazardous Combustion Products – Thermal decomposition may produce toxic fumes of Carbon Monoxide and/or Carbon dioxide.

Section 6. Accidental release measures

Personal Precautions – Use personal protection recommended in section 8.
Methods For Cleaning Up – Collect spill with absorbent material such as cardboard and place into a container approved for waste disposal. This product becomes a firm synthetic rubber when mixed with Part B

Section 7. Handling and Storage

Handling – Use personal protection recommended in section 8.
Storage – Store in a cool dry area

Section 8. Exposure Controls / Personal Protection

Exposure Guidelines – No established limits.
Engineering controls – No specific controls are needed.
Personal Protective Equipment:
 Eye Protection – Wear safety glasses or goggles to avoid eye contact.
 Skin Protection – Wear impervious gloves such as vinyl to minimize contact with skin.
 Respiratory Protection – Not required.
 Work/Hygienic Practices – Avoid contact with eyes and skin. Wash thoroughly after handling and before eating or drinking.

Section 9. Physical and Chemical Properties

Physical State.....Viscous liquid
Odor and appearanceMild hydrocarbon odor, Tan colored viscous liquid
pH.....Not established.
Specific Gravity.....1.25
Density.....10.43 lbs/gal.
Vapor Density (air = 1).....> 1
Vapor Pressure (mmHg).....Not established.
Evaporation Rate.....Not Applicable.

Section 9. Physical and Chemical Properties (continued)

Boiling Point.....Not established.
Freezing Point.....Not established.
Coefficient of Water/Oil Distribution...Not established
Viscosity.....~ 100,000 cP

Section 10. Stability and Reactivity

Stability – Considered Stable.
Conditions to Avoid – None known
Incompatible Materials – None known.
Hazardous Decomposition Products – None known.
Hazardous polymerization – Will not occur.
Reactivity – Hazardous reaction will not occur.

Section 11. Toxicological Information

No known applicable information.

Section 12. Ecological Information

No known applicable information.

Section 13. Disposal Considerations

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
This product becomes a firm synthetic rubber when mixed with Part B. Please mix with Part B and allow to cure before disposal.

Section 14. Transport Information

Special Shipping Information – None.
DOT – Not regulated.
TDG – Not available.
PIN – Not available.

Section 15. Regulatory Information

OSHA 29 CFR 1910-1200 – Not considered hazardous

TSCA – All components of this product are listed on TSCA Inventory.

CERCLA Reportable Quantity – Not applicable.

SARA Title III:

Section 302 Extremely Hazardous Substances – None.

Section 304 – Not applicable.

Section 311/312 – Not applicable

Section 313 – None.

RCRA – Refer to section 13.

California Proposition 65 – This product contains no levels of listed substances which the state of California has found to cause cancer, birth defects or other reproductive harm.

WHIMS Classification –Not classified.

Section 16. Other Information

Prepared in accordance with 29 CFR 1910.1200

This Product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

To the best of our knowledge, the information contained herein is accurate. However Chem Link Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with care. Although we have described herein all of the hazards to which we are currently aware, we cannot guarantee that these are the only hazards which exist.

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Section 1. Product and Company Information

Product Name	Part B for Pro Pack, Flash Pack and Seal Pack WATERPROOFING URETHANE	CHEM LINK INC 353 E. Lyons Street Schoolcraft, MI 49087 U.S.A.
Chemical Family	Diisocyanate	
Product Use	Urethane Sealant Hardener	
MSDS Prepared	10/23/04	Tel: 269-679-4440
MSDS Prepared by	Ed Zimmerman	Fax: 269-679-4448

Section 2. Composition / Information on Ingredients**HAZARDOUS INGREDIENTS**

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Concentration</u>
Polymeric Diphenylmethane Diisocyanate (MDI)	9016-87-9	33.0 %
4,4' Methylene Biphenyl Isocyanate (MDI)	101-68-8	10-30 %

Section 3. Hazards Identification**EMERGENCY OVERVIEW**Human Effects and Symptoms of Exposure

Routes of Entry – Dermal contact, Skin absorption, Eye contact, Inhalation and Ingestion.

Acute Eye Contact – Liquid, aerosols or vapors are irritating and can cause tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal.

Acute Skin Contact – Isocyanates react with skin protein and moisture and can cause irritation, which may include reddening, rash or blistering.

Skin Absorption – Prolonged contact may cause skin and or respiratory sensitization.

Acute Inhalation – Vapor pressure is low at room temperature. Certain operations such as material heating may generate vapor or aerosol concentrations sufficient to cause irritation. Excessive exposure may irritate upper respiratory tract, causing sensitization in susceptible individuals. MDI concentrations below the exposure guidelines may cause allergic reactions to such persons. Symptoms include coughing, difficulty in breathing and a feeling of tightness in the chest. Such effects may be delayed.

Acute Ingestion – Can result in irritation and corrosive action in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pains, nausea, vomiting and diarrhea.

Chronic Effects of exposure – Prolonged contact may cause skin and or respiratory sensitization.

Medical Conditions Aggravated by exposure – Asthma, other respiratory disorders (bronchitis, Emphysema, bronchial hyperactivity), skin allergies, eczema may be aggravated by Exposure to this product.

Carcinogenicity – There are no components in this product that are listed as a carcinogen by NTP, IARC, ACGIH or OSHA.

Section 4. First Aid Measures

First Aid For Eyes – Flush with large amounts of water for at least 15 minutes. Consult a Physician if ill effects or irritation occurs.

First Aid For Skin – Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. Seek medical attention if irritation develops or persists after the area is washed.

First Aid for Inhalation – If irritation, headache, nausea or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Consult a physician if this occurs.

First Aid For Ingestion – Do not induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person. Consult a physician.

Section 5. Fire Fighting Measures

Special Fire Fighting Instructions – None. Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters.

Extinguishing Media – CO₂, Dry Chemical, Foam and water spray for large fires.

Unusual Fire and Explosion Hazards – At temperatures greater than 400° F (204° C), polymeric MDI can polymerize and decompose which can cause pressure build-up in closed containers. Explosive rupture is possible. Therefore, use cold water to cool fire-exposed containers.

Flashpoint – Not established.

Upper Flammable Limit – Not applicable.

Lower Flammable Limit – Not applicable.

Autoignition temperature – Not applicable.

Sensitivity to Impact – Not applicable.

Sensitivity to Static Discharge – Not applicable.

Hazardous Combustion Products – Thermal decomposition may produce toxic fumes of Carbon Monoxide, Carbon dioxide and MDI vapors

Section 6. Accidental release measures

Personal Precautions – Use personal protection recommended in section 8.

Methods For Cleaning Up – Collect spill with absorbent material and dispose of in accordance with local, state and federal regulations.

Section 7. Handling and Storage

Handling – Use personal protection recommended in section 8. Avoid eye, skin and clothing contact.

Storage – Store in a cool dry area away from incompatible materials

Section 8. Exposure Controls / Personal Protection

Exposure Guidelines – Methylene Biphenyl Isocyanate CAS # 101-68-8

OSHA: .02 ppm Ceiling .20 mg/m³ Ceiling

ACGIH: .005 ppm TWA .051 mg/m³ TWA

Engineering controls – No specific controls are needed.

Personal Protective Equipment:

Eye Protection – Wear safety glasses or goggles to avoid eye contact.

Skin Protection – Wear impervious gloves such as vinyl to minimize contact with skin.

Respiratory Protection – A NIOSH approved respirator if this product is used in a spray.

Work/Hygienic Practices – Avoid contact with eyes and skin. Wash thoroughly after handling and before eating or drinking.

Section 9. Physical and Chemical Properties

Physical State.....Liquid

Odor and appearanceMild hydrocarbon odor, black colored liquid.

pH.....Not established.

Specific Gravity.....1.10

Density.....~ 9.1 lbs./gal.

Vapor Density (air = 1).....> 1

Vapor Pressure (mmHg).....Not established.

Evaporation Rate.....Not Applicable.

Boiling Point.....Not established.

Freezing Point.....Not established.

Coefficient of Water/Oil Distribution...Not established

Viscosity.....~ 3,000 cP

Section 10. Stability and Reactivity

Stability – Considered Stable.

Conditions to Avoid – Temperatures greater than 400° F (204° C)

Incompatible Materials – Water, amines, strong bases and Alcohols.

Hazardous Decomposition Products – None known.

Hazardous polymerization – May occur. Contact with moisture, other materials which react with Isocyanates, or temperatures above 400° F (204° C) may cause polymerization.

Reactivity – At temperatures greater than 400° F (204° C), polymeric MDI can polymerize and Decompose which can cause pressure build-up in closed containers. Explosive rupture is Possible.

Section 11. Toxicological Information

Oral – Result: for rats LD₅₀ > 10,000 mg/kg.

Skin Absorption – Result: for rabbits LD₅₀ > 2,000 mg/kg.

Skin Direct contact – Result: Not available

Eye Direct contact – Result: Not available

Inhalation – Result: LC₅₀ for Polymeric Diphenylmethane Diisocyanate Rat, 370 to 490 mg/m³

Inhalation – Result: LC₅₀ for Methylene Biphenyl Isocyanate Rat, 172 to 187 mg/m³

Section 11. Toxicological Information (continued)

Exposure Limits – for Methylene Biphenyl Isocyanate CAS # 101-68-8

OSHA: .02 ppm Ceiling .20 mg/m³ Ceiling

ACGIH: .005 ppm TWA .051mg/m³ TWA

Sensitization – (MDI) may cause allergic skin reaction in susceptible individuals. Animal studies have shown that skin contact with isocyanates may play a role in respiratory sensitization. Inhalation of MDI vapor may cause respiratory sensitization in susceptible individuals. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized.

Reproductive Toxicity – No.

Mutagenicity – No.

Teratogenicity – No

Synergistic Products – None.

Section 12. Ecological Information

Based on information for MDI and polymeric MDI. In the aquatic or terrestrial environment, movement is expected to be limited by its reactivity with water forming predominantly insoluble polyureas.

Section 13. Disposal Considerations

Do not dump into any sewers, on the ground or into any body of water. All disposal methods must be in compliance with all federal, state/provincial and local laws and regulations.

This product becomes a firm synthetic rubber when mixed with Part A Resin

Section 14. Transport Information

Special Shipping Information – None.

DOT – Not regulated.

TDG – Not available.

PIN – Not available.

Section 15. Regulatory Information

OSHA 29 CFR 1910-1200 – Sensitizer, Irritant.

TSCA – All components of this product are listed on TSCA Inventory.

CERCLA Reportable Quantity – 5000 lb. RQ for Methylene Biphenyl Isocyanate CAS # 101-68-8.

SARA Title III:

Section 302 Extremely Hazardous Substances – None.

Section 304 – Not applicable.

Section 311/312 – Immediate (acute) health hazard, Delayed (chronic) Health Hazard.

Section 313 – This product contains two chemicals currently on the Toxic Release

Chemicals List: Polymeric Diphenylmethane Diisocyanate, CAS # 9016-87-9

And Methylene Biphenyl Isocyanate, CAS # 101-68-8

RCRA – Refer to section 13.

Section 15. Regulatory Information (continued)

California Proposition 65 – This product contains no levels of listed substances which the state of California has found to cause cancer, birth defects or other reproductive harm.
WHIMS Classification – D2B

Section 16. Other Information

Prepared in accordance with 29 CFR 1910.1200

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