

# MATERIAL SAFETY DATA SHEET

1. **American Polywater Corporation**  
11222 - 60th Street North  
P.O. Box 53  
Stillwater, MN 55082 USA  
Phone: 1-651-430-2270  
Fax: 1-651-430-3634

**Product Name: Foam Sealant -  
FST (Part A)**

**Date Reviewed:** February 11, 2008  
**Reviewed By:** S. H. Dahlke

**Emergency Number:** 1-651-430-2270

## 2. HAZARDOUS INGREDIENTS

<u>Components*</u>	<u>CAS #</u>	<u>Weight %</u>	<u>ACGIH TWA</u>	<u>Manufacturer Recommendation</u>
Polymeric diphenylmethane diisocyanate	9016-87-9	100	NE**	.005 ppm

\* All components are listed on the TSCA inventory and the Canadian Domestic Substance List (DSL).

\*\* Not Established

## 3. HAZARDS IDENTIFICATION

### \*\*\*Emergency Overlook\*\*\*

Urethane prepolymer. Brown/amber liquid resin.

Eye and skin irritant. May cause skin sensitization. In case of eye contact, flush eyes with water. Wear gloves and safety glasses. Avoid contact with skin. Use with adequate ventilation. Do not ingest. Keep out of reach of children.

**Eye Contact:** Direct eye contact with vapors or splashes may cause eye irritation.

**Skin Contact:** May be harmful if absorbed through skin. Prolonged or repeated skin exposure may cause allergic sensitivity. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

**Inhalation (Breathing):** Material has low vapor pressure and inhalation hazard is expected to be minimal. Vapor exposure may cause irritation of the nose and throat. Symptoms may include burning sensation, coughing and shortness of breath, or other signs of respiratory distress. May cause allergic respiratory reaction below exposure guideline in susceptible individuals.

**Ingestion (Swallowing):** Oral toxicity is expected to be low.

**Carcinogenic Status:** This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC or OSHA, nor have any of its components. IARC Category 3, not classifiable.

## 4. FIRST AID

**Eye Contact:** If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

**Skin Contact:** Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.

**Inhalation (Breathing):** If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention.

**Ingestion (Swallowing):** Drink one or two glasses of milk or water. Do not induce vomiting. If victim is unconscious, place on the left side with head down. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Seek medical attention.

## 5. FIRE AND EXPLOSION HAZARD

**Flash Point:** >200°F (93°C)

**Autoignition Temperature.** > 1112°F (600°C)

**Extinguishing Media:** Water Fog, Carbon Dioxide, Dry Chemical or Foam

**Special Procedures:** Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture.

**Unusual Hazards:** Keep containers closed. Sealed container can build up pressure and even melt when exposed to high heat. Cool containers with water.

## 6. ACCIDENTAL RELEASE MEASURES

Spills expected to be small quantities. Collect excess material with absorbents or wipe with dry towels. Wash with a dilute ammonia solution. Prevent from entering waterways.

## 7. HANDLING AND STORAGE

Keep containers cool, dry, and away from sources of ignition. Keep cartridges capped and sealed. Protect from freezing. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

## 8. CONTROL MEASURES

**Ventilation:** Use with adequate ventilation to keep vapor concentration below acceptable limits. Observe OSHA standard 29 CFR 1910-94, 1910.107, 1910.108. If ventilation is not adequate, use approved chemical/mechanical filters designed to remove a combination of particulate and organic vapors in open and restricted areas. Use approved airline type respirators or hoods in confined areas. Observe OSHA standard 29 CFR 1910.134.

**Protective Gloves:** The use of natural rubber gloves is recommended to prevent skin contact.

**Eye Protection:** Eye protection is recommended, especially if the material is used in ways where it could splash in the eyes.

**Other Protective Equipment:** Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

## 9. PHYSICAL DATA

**Appearance:** Brown liquid

**Vapor Pressure:** < 0.001 mm Hg @ 20°C

**Specific Gravity (H<sub>2</sub>O = 1):** 1.23

**Percent Volatiles (Weight):** 0%

**VOC Content:** 0 grams/L

**Boiling Point:** 572°F (300°C) decomposes

**Vapor Density (Air = 1):** 8.5

**Solubility in Water:** Reacts slowly

**Evaporation Rate:** >1 (n-butyl acetate = 1)

**Viscosity:** 250 cps at 25°C

## 10. REACTIVITY DATA

**Stability:** Stable

**Hazardous Polymerization:** May occur in contact with water or temperatures over 400°F.

**Conditions to Avoid:** Avoid heat, flame, high humidity and water contamination.

**Incompatibility:** Water, alcohols, amines, acids, alkalies, metal compounds.

## 11. HEALTH HAZARD/TOXICOLOGICAL INFORMATION

Chemical Name	Oral LD <sub>50</sub> (rat)	Dermal LD <sub>50</sub> (rabbit)	Inhalation LC <sub>50</sub> (rat)
Polymeric diphenylmethane diisocyanate	>5000 mg/kg	>500 mg/kg	Not Established

## 12. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with local, county, state, and federal regulations. Foam Sealant - Part A is not considered hazardous waste under RCRA.

## 13. TRANSPORTATION

**DOT Hazard Class:** Not Regulated

**IMO/IMDG Code:** Not Regulated

**DOT Shipping Name:** Not Applicable

**ICAO/IATA:** Not Regulated

## 14. REGULATORY STATUS

**Canada WHMIS:** Class D2B

Hazard Categories for SARA Section 311/312 Reporting	Acute	Chronic	Fire	Pressure	Reactive
	Yes	Yes	No	No	No

**CERCLA/SARA Sec. 302**

**SARA Sec. 313**

Components	Hazardous Substance RQ	EHS TPQ	SARA Sec. 313 Toxic Release
Polymeric diphenylmethane diisocyanate (CAS# 9016-87-9)	No	No	Yes (1%)

# MATERIAL SAFETY DATA SHEET

## 1. American Polywater Corporation

11222 - 60th Street North  
P.O. Box 53  
Stillwater, MN 55082 USA  
Phone: 1-651-430-2270  
Fax: 1-651-430-3634

**Product Name: Foam Sealant -  
Part B**

**Date Reviewed:** January 30, 2008

**Reviewed By:** S. H. Dahlke

**Emergency Number:** 1-651-430-2270

## 2. HAZARDOUS INGREDIENTS

<u>Components*</u>	<u>CAS #</u>	<u>Weight %</u>	<u>ACGIH TLV</u>	<u>OSHA TLV</u>
Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	9082-00-2	90 - 100	NE**	NE**
Tertiary amine compounds	Proprietary	<2	NE**	NE**

\* All components are listed on the TSCA inventory and Canadian Domestic Substance List (DSL).

\*\* Not established

Components listed as proprietary are considered trade secret in accordance with the OSHA Hazard and Communication Standard (29 CFR 1910.1200). Identity of proprietary components will be made available in accordance as provided in this standard.

## 3. HAZARDS IDENTIFICATION

### \*\*\*Emergency Overview\*\*\*

Urethane hardener. Clear liquid.

Eye and skin irritant. May cause skin sensitization. In case of eye contact, flush eyes with water. Wear gloves and safety glasses. Avoid contact with skin. Use with adequate ventilation. Do not ingest. Keep out of reach of children.

**Eye Contact:** Direct eye contact with vapors or splashes may cause eye irritation.

**Skin Contact:** May cause irritation and possible allergic skin reaction.

**Inhalation (Breathing):** Vapor exposure may cause irritation of the nose and throat.

**Ingestion (Swallowing):** May be harmful if swallowed.

**Carcinogenic Status:** This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC or OSHA, nor have any of its components.

## 4. FIRST AID

**Eye Contact:** If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

**Skin Contact:** Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.

**Inhalation (Breathing):** If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention.

**Ingestion (Swallowing):** Drink one or two glasses of milk or water. Do not induce vomiting. If victim is unconscious, place on the left side with head down. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Seek medical attention.

## 5. FIRE AND EXPLOSION HAZARD

**Flash Point:** 248°F (120°C) PMCC

**Flammable Limits:** Unknown

**Extinguishing Media:** Water Fog, Carbon Dioxide, Dry Chemical or Foam

**Special Procedures:** Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture.

**Unusual Hazards:** Sealed container can build up pressure when exposed to high heat. Cool containers with water.

## 6. ACCIDENTAL RELEASE MEASURES

Spills expected to be small quantities. Cover with absorbent material. Prevent product from entering sewers or waterways. Rinse surface with water.

**7. HANDLING AND STORAGE**

Keep containers cool, dry, and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

**8. CONTROL MEASURES**

**Ventilation:** Use with adequate ventilation to keep vapor concentration below acceptable limits. Observe OSHA standard 29 CFR 1910-94. If ventilation is not adequate, use approved chemical/mechanical filters designed to remove a combination of particulate and organic vapors in open and restricted areas. Use approved airline type respirators or hoods in confined areas. Observe OSHA standard 29 CFR 1910.134.

**Protective Gloves:** The use of natural rubber gloves is recommended to prevent skin contact.

**Eye Protection:** Eye protection is recommended, especially if the material is used in ways where it could splash in the eyes.

**Other Protective Equipment:** Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

**9. PHYSICAL DATA**

**Appearance:** Clear to light amber liquid, mild amine odor

**Vapor Pressure:** Not Established

**Specific Gravity (H<sub>2</sub>O = 1):** 1.07 at 25°C

**VOC Content:** 0 grams/Liter

**Boiling Point:** Decomposes

**Vapor Density (Air = 1):** >1

**pH:** Not Established

**Solubility in Water:** Slightly soluble

**10. REACTIVITY DATA**

**Stability:** Stable

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** None known. Do not freeze product, avoid moisture.

**Incompatibility:** Strong oxidizers, strong acids, reactive metals, and sodium nitrite.

**11. HEALTH HAZARD/TOXICOLOGICAL INFORMATION**

Refer to Section 3 for available information on potential health effects.

Chemical Name	Oral LD <sub>50</sub> (rat)	Dermal LD <sub>50</sub> (rabbit)	Inhalation LC <sub>50</sub> (rat)
Oxirane, methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3:1)	Not Established	Not Established	Not Established
Tertiary amine compounds	Not Established	Not Established	Not Established

**12. DISPOSAL CONSIDERATIONS**

Dispose of product in accordance with local, county, state, and federal regulations. Foam Sealant - Part B is not considered hazardous waste under RCRA.

**13. TRANSPORTATION**

**DOT Hazard Class:** Not Regulated

**DOT Shipping Name:** Not Applicable

**IMO/IMDG Code:** Not Regulated

**ICAO/IATA:** Not Regulated

**14. REGULATORY STATUS**

**Canada WHMIS Class:** NC

Hazard Categories for SARA Section 311/312 Reporting	Acute	Chronic	Fire	Pressure	Reactive
	No	No	No	No	No

Components	CERCLA/SARA Sec. 302 Hazardous Substance RQ	EHS TPQ	SARA Sec. 313 Toxic Release

The components of Foam Sealant - Part B are not affected by these Superfund regulations.

# MATERIAL SAFETY DATA SHEET

## 1. American Polywater Corporation

11222 - 60th Street North  
P.O. Box 53  
Stillwater, MN 55082 USA  
Phone: 1-651-430-2270  
Fax: 1-651-430-3634

**Product Name: Type HP™  
Solvent Saturated Wipe**

**Date Reviewed:** April 12, 2007

**Reviewed By:** S. H. Dahlke

**Emergency Number:** 1-651-430-2270

## 2. HAZARDOUS INGREDIENTS

<u>Components*</u>	<u>CAS #</u>	<u>Weight %</u>	<u>ACGIH TLV**</u>	<u>OSHA TWA</u>
Medium Aliphatic Petroleum Solvent	64742-47-8	<30 gm/towel (<100%)	NE***	NE***
Citrus Terpenes	94266-47-4	< 8 gm/towel (<25%)	NE***	NE***

\* All components are listed on the TSCA inventory.

\*\* Recommend TLV of 500 ppm for Type HP™ Solvent.

\*\*\* Not Established

## 3. HAZARDS IDENTIFICATION

### \*\*\*Emergency Overview\*\*\*

Non-linting towel saturated with solvent cleaning solution. Hydrocarbon/terpene blend.

Combustible. Keep away from fire and flame. Use with adequate ventilation. Do not ingest. Avoid contact with skin. In case of eye contact, flush eyes with water. Keep out of reach of children.

**Eye Contact:** Direct eye contact with vapors or splashes may cause eye irritation. This irritation is minimal and expected to be transient.

**Skin Contact:** This product has low skin irritation potential. Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

**Inhalation (Breathing):** Concentrated petroleum solvent vapors may cause irritation of the nose and throat. Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue). Persons with impaired lung function may experience additional breathing difficulties due to the irritant properties of this material.

**Ingestion (Swallowing):** Material has low level of oral toxicity. Ingestion of large quantities may cause irritation of the digestive tract, nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

**Aspiration Hazard:** Petroleum solvent content can enter lungs during swallowing or vomiting and cause aspiration pneumonitis.

**Carcinogenic Status:** This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC or OSHA, nor have any of its components.

## 4. FIRST AID

**Eye Contact:** If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

**Skin Contact:** Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.

**Inhalation (Breathing):** If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

**Ingestion (Swallowing):** Maximum amount in a single pack is less than 120 mls of solvent. Do not induce vomiting or give anything by mouth. Petroleum content can be aspirated into lungs and cause aspiration pneumonitis. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention.

**5. FIRE AND EXPLOSION HAZARD****Flash Point:** > 141 °F/60.5°C(PMCC) solvent (bulk)**Flammable Limits:** Unknown**Extinguishing Media:** Carbon Dioxide, Dry Chemical or Foam**Special Procedures:** Tins will ignite. If burning, smother or isolate from other flammable materials.**Unusual Hazards:** If large quantities of towelette packages are ignited, treat as petroleum solvent fire.**6. ACCIDENTAL RELEASE MEASURES**

No spill hazard with saturated towel package.

**7. HANDLING AND STORAGE**

Keep boxes containing packages closed. Keep towelette packages cool, dry, and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. All tins should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

**8. CONTROL MEASURES****Respiratory Protection:** Normal ventilation adequate. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH approved) or use supplied air equipment.**Protective Gloves:** For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation.**Eye Protection:** Eye protection is recommended, especially if the material is used in ways where it could splash in the eyes.**Other Protective Equipment:** It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.**9. PHYSICAL DATA****Appearance:** A non-linting towel, lightly saturated with clear, colorless liquid. Multiple packages available.**Vapor Pressure of Solvent:** <1 mm Hg @ 20°C**Specific Gravity of Solvent (H<sub>2</sub>O = 1):** .79**Percent Volatiles of Solvent (Weight):** 100%**Boiling Point of Solvent:** IBP - 365°F / 185°C**Vapor Density of Solvent (Air = 1):** Not Determined**Solubility in Water of Solvent:** Nil**Evaporation Rate of Solvent:** >.1 (n-butyl acetate = 1)**VOC Content of Solvent:** 790 gms/L**10. REACTIVITY DATA****Stability:** Stable**Hazardous Polymerization:** Will not occur.**Incompatibility:** Avoid heat, flame and contact with strong oxidizing agents.**11. HEALTH HAZARD/TOXICOLOGICAL INFORMATION**

Refer to Section 3 for available information on potential health effects.

LD<sub>50</sub> (rat) for petroleum distillate is > 20 gm/kg. LD<sub>50</sub> for terpene is > 5 gm/kg.**12. DISPOSAL CONSIDERATIONS**

Dispose of product in accordance with local, county, state, and federal regulations. The Type HP™ Saturated Wipe Packages are not considered hazardous waste under RCRA.

**13. TRANSPORTATION****DOT Hazard Class:** Not Regulated**DOT Shipping Name:** Not Regulated

**14. REGULATORY STATUS**

Canada WHMIS Class: B3

<b>Hazard Categories for SARA Section 311/312 Reporting</b>	<b>Acute</b> No	<b>Chronic</b> No	<b>Fire</b> Yes	<b>Pressure</b> No	<b>Reactive</b> No
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<b><u>Components</u></b>	<b><u>CERCLA/SARA Sec. 302 Hazardous Substance RQ</u></b>	<b><u>EHS TPQ</u></b>	<b><u>SARA Sec. 313 Toxic Release</u></b>
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The components of the Type HP™ saturated wipes are not affected by these Superfund regulations.

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Disclaimer: The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.