

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

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

Emergency Number: 651-430-2270

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

Chemical Description: Urethane foam prepolymer
Product Use: Duct Sealant
Date Reviewed: 11 February 2008
Reviewed By: S. H. Dahlke

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS #</u>	<u>Weight %</u>
Polymeric diphenylmethane diisocyanate	101-68-8	100

3. HAZARDS IDENTIFICATION

	<u>NFPA</u>		<u>Key</u>
Health	2	0-minimal	3-serious
Flammability	1	1-slight	4-severe
Reactivity	0	2-moderate	

Emergency Overview:

CAUTION: 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.

4. FIRST AID MEASURES

Eye Contact: 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 soap and 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-FIGHTING MEASURES

Flash Point: 93°C (PMCC)

Flammable Limits: Not Available

Autoignition Temperature: >600°C

Hazardous Combustion Products: When heated to decomposition it emits carbon monoxide and other fumes and vapors varying in composition and toxicity.

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

Special Precautions: 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 absorbants or wipe with dry towels. Wash with a dilute ammonia solution.

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. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection and Ventilation Requirements:	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 impervious gloves is recommended to prevent skin contact.
Eye Protection:	Eye protection is recommended especially if the material is used in ways where it could contact the eyes.
Other Protective Equipment:	Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.
Exposure Limits and Recommendations:	A TLV of .005 ppm for 4-4'Diphenylmethane Diisocyanate has been established by ACGIH.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown liquid.
Odor Threshold:	Not Available
Vapor Density (Air = 1):	8.5
Specific Gravity (H₂O = 1):	1.3
Solubility in Water:	Reacts slowly
VOC Content	None
Boiling Point:	300°C (decomposes)
Freezing Point:	Not Available
Evaporation Rate:	>1 (n-butyl acetate = 1)
Vapor Pressure:	<0.001 mmHg @ 20°C
Coefficient of Water/Oil Distribution:	Not Available
Viscosity:	250 cps @ 25°C
Percent Volatiles (Weight):	0%
VOC Content:	0 grams/Liter

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Avoid heat, flame, sources of ignition. Avoid high humidity and water contamination.
Materials to Avoid:	Water, alcohols, amines, acids, alkalies, metal compounds.
Hazardous Decomposition Products:	CO ₂ , CO, aldehydes, acids and other organic substances may be formed during combustion or degradation.
Conditions Under Which Hazardous Polymerization May Occur:	May occur in contact with water or temperatures over 200°C.

11. TOXICOLOGICAL INFORMATION

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.
Irritation and Sensitization Potential:	Prolonged or repeated skin exposure may cause skin sensitization.
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):	Material has a low level of oral toxicity. Ingestion may cause irritation of the gastrointestinal tract.
Oral Toxicity:	Polymeric diphenylmethane diisocyanate LD ₅₀ (oral rat) 5000 mg/kg
Chronic Exposure:	Not Available.
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.
Reproductive Toxicity:	Not Available
Mutagenicity:	Not Available
Teratogenicity:	Not Available
Toxicologically Synergistic Products:	Not Available

12. ECOLOGICAL INFORMATION

Mobility:	No information available.
Bioaccumulation:	No information available.
Ecotoxicity:	No information available.

13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with national and local regulations.

14. TRANSPORTATION INFORMATION

Transport Canada-Product Identification Number:	Not Regulated
UN Number:	Not Listed
Hazard Warning Label:	Not Applicable

15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Classification	Class D, Division 2B
Canadian DSL	All ingredients listed.
United States TSCA	All ingredients listed.

16. OTHER INFORMATION

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.