# **MATERIAL SAFETY DATA SHEET**

## 1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

### Supplier/Manufacturer:

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: PowerPatch<sup>®</sup> Leak Sealant Paste Resin – EP Part A Single-Use Package

Chemical Description: Sealant Resin, Part A of a two-part sealant

Product Use: Sealant

Polywater Europe BV Mauritsplaat 126 NL-3012CD Rotterdam Netherlands Tel: +31 10 233 0578

Emergency Number: +1-651-430-2270

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	CAS #	<u>EC #</u>	<u>Wt %</u>
Bisphenol A Diglycidyl Ether	25068-38-6	500-033-5	30 - 50

## 3. HAZARDS IDENTIFICATION

Emergency Overview:	Moderate skin and eye irritant. May cause allergic skin reaction. Keep out of reach of children. Industrial use only.
Eye Contact:	Direct eye contact with material or vapors may cause eye irritation. Contact at elevated temperatures may cause thermal burns.
Skin Contact:	This product has moderate skin irritation potential. Persons with pre- existing skin disorders may be more susceptible to skin irritation from this material. Prolonged or repeated skin exposure may cause skin sensitization.
Irritation and Sensitization Potential:	This product has moderate skin irritation potential. It is not a sensitizer.
Inhalation (Breathing):	Low vapor pressure makes this route of exposure unlikely.
Ingestion (Swallowing):	Material has a low level of oral toxicity. Ingestion may cause irritation of the gastrointestinal tract.
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<br/>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:	>400°F (PMCC)
Flammable Limits:	Not Available
Autoignition Temperature:	Not Available
Hazardous Decomposition and By-Products:	CO <sub>2</sub> , CO, aldehydes, acids and other organic substances may be formed during combustion or elevated temperature (>500°F) degradation.
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:** Heating above 300°F in the presence of air may cause slow oxidative decomposition and above 500°F may cause polymerization.

## 6. ACCIDENTAL RELEASE MEASURES

Major spill unlikely with small package. Residual resin may be removed using steam or hot soapy water. Dispose of according to local and federal regulations. Prevent spill from entering drainage/sewer systems, waterways, and surface waters.

## 7. HANDLING AND STORAGE

Keep containers tightly closed. Do not reseal container if contamination is suspected. Keep containers cool, dry, and away from sources of ignition. Protect from freezing. 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. Provide appropriate ventilation/respiratory protection against decomposition products during welding/flame operations (i.e. torches used to install heat shrink products) on or near cured product.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	None required for normal handling temperatures and conditions.
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 contact 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 AND CHEMICAL PROPERTIES

Appearance:	Dark gray or black paste.		
Odor Threshold:	Not Available		
Vapor Density (Air = 1):	>1		
Specific Gravity (H <sub>2</sub> O = 1):	<2.0		
Solubility in Water:	Not Applicable		
Boiling Point:	Not Applicable		
Freezing Point:	Not Applicable		
Evaporation Rate:	<1 (n-butyl acetate = 1)		
Vapor Pressure:	Not Applicable		
Coefficient of Water/Oil Distribution:	Not Available		
pH:	Not Applicable		
Volatiles (Weight %):	0%		
VOC Content:	Not Applicable		
10. STABILITY AND REACTIVITY			
Stability:	Stable		
Conditions to Avoid:	Avoid heat, flame, sources of ignition.		
Incompatibility:	Strong acids or bases (especially primary or secondary aliphatic amines), strong oxidizing agents.		
Hazardous Decomposition and By-Products: Conditions Under Which Hazardous	$CO_2$ , $CO$ , aldehydes, acids and other organic substances may be formed during combustion or elevated temperature (>500°F) degradation.		
Polymerization May Occur:	When Sealant Resin (Part A) is mixed with Sealant Hardener (Part B), heat is generated. Use caution if combining and mixing more than one single-use package.		
11. TOXICOLOGICAL INFORMATION			
Toxicity to Animals:	Bisphenol A Diglycidyl Ether LD <sub>50</sub> (oral) >2000 mg/kg		
Chronic Exposure:	LD <sub>50</sub> (dermal) >2000 mg/kg 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:	Resins based on diglycidyl ether of bisphenol A have proved to be inactive when tested by in-vivo mutagenicity assays. These resins have shown activity in in-vitro microbial mutagenicity screening and have produced chromosomal aberrations in cultured rat-liver cells. The significance of these tests to humans is unknown.
Teratogencity:	Not Available
Toxicologically Synergistic Products:	Not Available
12. ECOLOGICAL INFORMATION	
Mobility:	No information available.
Bioaccumulation:	No information available.
Ecotoxicity:	No information available.
Aquatic Toxicity:	May be toxic to aquatic organisms.

## 13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with National and Local Regulations.

# 14. TRANSPORTATION INFORMATION

DOT:	Not Regulated
UN Number:	3077
UN Proper Shipping Name:	Environmentally hazardous substance, solid, N.O.S. (Epoxy Resin)
Class and Subsidiary Risk:	9
Packing Group:	III
ICAO/IATA-DGR:	9, Marine Pollutant
IMDG:	9, Marine Pollutant
ADR/RID:	9

## 15. REGULATORY INFORMATION

## **USA Federal and State**

All components are listed on the TSCA inventory.

Hazard Categories for SAF		<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>
Section 311/312 Reporting		No	No	No	No
<u>Components</u>	CERCI Hazardous Subs	LA/SARA Sec	302 EHS TPQ	SARA Sec <u>Toxic Rel</u>	

Components are not affected by these Superfund regulations.

## **European Union**

Product is classified as hazardous according to European Directives 88/379/EEC and 67/548/EEC and EU Regulation (EC) No 1272/2008.

Risk Phrases:	R36/38: Irritating to eyes and skin. R43: May cause sensitization by skin contact. R51/53: Toxic to aquatic organisms.
Safety Phrases:	S2: Keep out of reach of children. S28: After contact with skin, wash immediately with plenty of water. S37/39: Wear suitable gloves and eye/face protection. S61: Avoid release to the environment.
Symbol:	Xi: Irritant N: Dangerous for the environment.

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

#### Canada

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:	D2B (toxic)		
Canadian DSL:	All ingredients listed.		

#### Australia

All components are listed on the AICS. Product is classified as hazardous according to criteria of NOHSC Australia.

ADAPT Australia Pty. Ltd.		
11 - 19 Global Drive		
Tullamarine Victoria 3043		
Telephone Number. 03 9330 0666		

Emergency Telephone Number: 0421 277 889

#### 16. OTHER INFORMATION

NFPA Ratings:	Health:	2
-	Fire:	1
	Reactivity:	1

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

Revision Date:	January 18, 2013
<b>Revision Number:</b>	2
Reviewed By:	S. H. Dahlke

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.

**EP-Paste A:MSDS** 

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

### Supplier/Manufacturer:

**Polywater Europe BV** 

Mauritsplaat 126 NL-3012CD Rotterdam

Netherlands

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: PowerPatch<sup>®</sup> Leak Sealant Paste Hardener – EP Part B Single-Use Package

**Chemical Description:** Hardener, Part B of two-part sealant.

Product Use: Sealing Leaks

Tel: +31 10 233 0578 Emergency Number: +1-651-430-2270

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	CAS #	<u>EC #</u>	<u>Wt %</u>
Polymercaptan Curing Agent	Proprietary		30 - 50
Polymer of C-18 Unsaturated Fatty Acid			
Dimers with TETA & TOFA	68082-29-1	500-191-5	5 - 10
2,4,6-Tris (Dimethylaminomethyl) Phenol	90-72-2	202-013-9	< 5
Polymer of C-18 Unsaturated Fatty Acid Dimers	68541-13-9		< 5
Triethylenetetramine	112-24-3	203-950-6	< 2

#### 3. HAZARDS IDENTIFICATION

Emergency Overview:	Skin and eye irritant. May cause allergic skin reaction. Keep out of reach of children. Industrial use only.
Eye Contact:	Direct eye contact with material or vapors may cause severe eye irritation.
Skin Contact:	May cause severe skin irritation, especially on prolonged contact. Prolonged or repeated skin exposure may cause skin sensitization.
Irritation and Sensitization Potential:	This product has high skin irritation potential. It is a sensitizer.
Inhalation (Breathing):	Excess vapor exposure may cause irritation of the nose and throat. Prolonged exposure may cause delayed lung injury and chemical pneumonia.
Ingestion (Swallowing):	Material is considered slightly toxic. Ingestion may cause irritation of the gastrointestinal tract, nausea, vomiting, and diarrhea.

### 4. FIRST AID MEASURES

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):	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:	>200°F (PMCC)
Flammable Limits:	Not Available
Autoignition Temperature:	Not Available
Hazardous Decomposition and By-Products:	Oxides of carbon, oxides of sulfur, oxides of nitrogen.
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:	Toxic smoke and vapors may form during combustion.

## 6. ACCIDENTAL RELEASE MEASURES

Major spill unlikely with small package. Residual resin may be removed using steam or hot soapy water. Dispose of according to local and federal regulations. Prevent spill from entering drainage/sewer systems, waterways, and surface waters.

## 7. HANDLING AND STORAGE

Keep containers tightly closed. Do not reseal container if contamination is suspected. Keep containers cool, dry, and away from sources of ignition. Protect from freezing. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. Provide appropriate ventilation/respiratory protection against decomposition products during welding/flame operations (i.e. torches used to install heat shrink products) on or near cured product.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	None required with proper ventilation.
Protective Gloves:	The use of impermeable 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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to yellow paste; slight sulfur, pungent odor.
Odor Threshold:	Not Available
Vapor Density (Air = 1):	Not Available
Specific Gravity (H <sub>2</sub> O = 1):	<2
Solubility in Water:	Negligible
Boiling Point:	Not Available
Freezing Point:	Not Available
Evaporation Rate:	Not Available
Vapor Pressure:	<1 mm Hg @ 70°F
Coefficient of Water/Oil Distribution:	Not Available
pH:	Not Applicable
Volatiles (Weight %):	0%
VOC Content:	0 g/l
10. STABILITY AND REACTIVITY	
Stability:	Stable
Conditions to Avoid:	Avoid extreme heat and open flame.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition and By-Products:	Oxides of carbon, oxides of sulfur, oxides of nitrogen.
Conditions in Which Hazardous Polymerization May Occur:	When Sealant Hardener (Part B) is mixed with Sealant Resin (Part A), heat is generated. Use caution if combining and mixing more than one single-use package.

# 11. TOXICOLOGICAL INFORMATION

Toxicity to Animals::	Polymercaptan Curing Agent Polymer of C-18 Unsaturated Fatty Acid Dimers with TETA & TOFA	LD <sub>50</sub> (oral rat) >2000 mg/kg LD <sub>50</sub> (oral rat) >2000 mg/kg LD <sub>50</sub> (dermal rabbit) >2000 mg/kg
	2,4,6-Tris (Dimethylaminomethyl) Phenol	LD <sub>50</sub> (oral) >2000 mg/kg
Chronic Exposure:	Not Available.	
Carcinogenic Status:	This substance has not been identific carcinogen by NTP, IARC, or OSHA	<b>e</b> ,
Reproductive Toxicity:	Not Available	
Mutagenicity:	Not Available	
Teratogencity:	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

UN Number:	Not Listed
UN Proper Shipping Name:	Not Applicable
Class and Subsidiary Risk:	Not Applicable
Packing Group:	Not Applicable
TDG:	Not Regulated
ICAO/IATA-DGR:	Not Regulated
IMDG:	Not Regulated
ADR/RID:	Not Regulated

### 15. REGULATORY INFORMATION

#### **USA Federal and State**

All components are listed on the TSCA inventory.

Hazard Categories for S Section 311/312 Report		<u>Acute</u> Yes	<u>Chronic</u> No	<u>Fire</u> No	<u>Pressure</u> No	<u>Reactive</u> No
	9		A/SARA Sec :		SARA See	
<u>Components</u>	Hazard	ous Subst	ance RQ	EHS TPQ	Toxic Rel	ease

Components are not affected by these Superfund regulations.

#### **European Union**

Product is classified as hazardous according to European Directives 88/379/EEC and 67/548/EEC and EU Regulation (EC) No 1272/2008.

Risk Phrases:	Not Applicable
Safety Phrases:	S2: Keep out of reach of children. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

#### Canada

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:	D2B (toxic)
Canadian DSL:	All ingredients listed.

#### Australia

All components are listed on the AICS. This product is considered hazardous according to criteria of NOHSC Australia.

Contact Information:	ADAPT Australia Pty. Ltd. 11 - 19 Global Drive Tullamarine Victoria 3043 Telephone Number. 03 9330 0666
	Telephone Number. 03 9330 0666

Emergency Telephone Number: 0421 277 889

#### 16. OTHER INFORMATION

NFPA Ratings:	Health:	2
	Fire:	1
	Reactivity:	1

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

Revision Date:	May 13, 2013
<b>Revision Number:</b>	2
Reviewed By:	S. H. Dahlke

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.

EP-Paste B:MSDS

# **MATERIAL SAFETY DATA SHEET**

### 1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

### Supplier/Manufacturer:

**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: PowerPatch<sup>®</sup> Putty Stick – Leak Sealant

**Chemical Description:** Gray and dark gray, two-part putty stick

Product Use: Sealant resin

Polywater Europe BV Mauritsplaat 126 NL-3012CD Rotterdam Netherlands Tel: +31 10 233 0578

Emergency Number: +1-651-430-2270

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	<u>EC #</u>	<u>Wt %</u>
25036-25-3		7 - 13
25085-99-8		5 - 10
90-72-2	202-013-9	0.5 – 1.5
	25036-25-3 25085-99-8	25036-25-3 25085-99-8

## 3. HAZARDS IDENTIFICATION

Emergency Overview:	Moderate skin and eye irritant. May cause allergic skin reaction. Keep out of reach of children. Industrial use only.	
Eye Contact:	May cause moderate eye irritation.	
Skin Contact:	Skin irritant. 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.	
Irritation and Sensitization Potential:	This product has moderate skin irritation potential. It is a sensitizer.	
Inhalation (Breathing):	Low vapor pressure makes this route of exposure unlikely.	
Ingestion (Swallowing):	Material has a low level of oral toxicity. Ingestion may cause irritation of the gastrointestinal tract.	
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 water. If irritation occurs, seek medical attention.	
Inhalation (Breathing):	Not Applicable	

Ingestion (Swallowing):

No emergency medical treatment necessary.

## 5. FIRE-FIGHTING MEASURES

Flash Point:	>140°F (>60°C)
Flammable Limits:	Not Available
Autoignition Temperature:	Not Available
Hazardous Decomposition and By-Products:	Carbon dioxide, carbon monoxide, aldehydes, acids, oxides of nitrogen and sulfur.
Extinguishing Media:	Water Fog, Carbon Dioxide, Dry Chemical or Foam.
Special Precautions:	Full protective equipment including self-contained breathing apparatus should be used.
Unusual Hazards:	Toxic smoke and vapors may form during decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

Not applicable. Do not flush to drainage/sewer systems, waterways, and surface waters.

## 7. HANDLING AND STORAGE

Store in a cool dry place. Use good personal hygiene practice. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Provide appropriate ventilation/respiratory protection against decomposition products during welding/flame cutting operations and to protect against nuisance dust during sanding/grinding of cured product.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	None required for normal handling temperatures and conditions.	
Protective Gloves:	The use of impermeable 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.	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Gray/Dark Gray putty stick.
Odor Threshold:	Not Available
Vapor Density (Air = 1):	Not Available
Specific Gravity (H <sub>2</sub> O = 1):	2.25

Solubility in Water:	Insoluble			
Boiling Point:	Not Available			
Freezing Point:	Not Available			
Evaporation Rate:	Not Available			
Vapor Pressure:	Not Available			
Coefficient of Water/Oil Distribution:	Not Available			
pH:	Not Applicable			
VOC Content:	<0.1%			
10. STABILITY AND REACTIVITY				
Stability:	Stable			
Conditions to Avoid:	Avoid heat and flame.			
Materials to Avoid:	Strong acids or bases (especially primary or secondary aliphatic amines), strong oxidizing agents.			
Hazardous Decomposition and By-Products:	Carbon dioxide, carbon monoxide, aldehydes, acids, oxides of nitrogen and sulfur.			
Conditions in Which Hazardous Polymerization May Occur:	None			
11. TOXICOLOGICAL INFORMATION				
Toxicity to Animals:	Bisphenol A Diglycidyl Ether	LD <sub>50</sub> (oral, rat) >5000 mg/kg		
	2,4,6-Tris(Dimethylamino)	LD <sub>50</sub> (dermal, rabbit) >20000 mg/kg		
	Methyl Phenol	LD <sub>50</sub> (oral, rat) 1653 mg/kg LC <sub>50</sub> (inh, rat) >0.5 mg/l Skin Irritation 8 (scale 0-8) (rabbit)		
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			
Teratogencity:	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

UN Number:	Not Listed
UN Proper Shipping Name:	Not Applicable
Class and Subsidiary Risk:	Not Applicable
Packing Group:	Not Applicable
TDG:	Not Regulated
ICAO/IATA-DGR:	Not Regulated
IMDG:	Not Regulated
ADR/RID:	Not Regulated

#### 15. REGULATORY INFORMATION

#### **USA Federal and State**

All components are listed on the TSCA inventory.

Hazard Categorie	s for SARA	<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<b>Reactive</b>
Section 311/312 F	Reporting	Yes	No	No	No	No
		CERCLA	VSARA Sec 3	02	SARAS	Sec. 313
<b>Components</b>	<u>Hazardou</u>	is Substand	<u>ce RQ</u> <u>E</u>	<u>HS TPQ</u>	<u>Toxic R</u>	elease

Components are not affected by these Superfund regulations.

#### **European Union**

Product is classified as hazardous according to European Directives 88/379/EEC and 67/548/EEC and EU Regulation (EC) No 1272/2008.

Risk Phrases:	Not Applicable
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Safety Phrases:	Not Applicable
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Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

#### Canada

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:	NC	

Canadian DSL:

All ingredients listed.

#### Australia

All components are listed on the AICS. Not considered hazardous according to criteria of NOHSC Australia.

Contact Information:	ADAPT Australia Pty. Ltd.
	11 - 19 Global Drive
	Tullamarine Victoria 3043
	Telephone Number. 03 9330 0666

Emergency Telephone Number: 0421 277 889

#### 16. OTHER INFORMATION

NFPA Ratings:	Health:	2
	Fire:	1
	Reactivity:	1

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

Revision Date:	May 13, 2013
Revision Number:	3
Reviewed By:	S. H. Dahlke

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.

EP-Putty Stick:MSDS

# **MATERIAL SAFETY DATA SHEET**

### 1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

### Supplier/Manufacturer:

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

Polywater Europe BV

Mauritsplaat 126 NL-3012CD Rotterdam Netherlands Tel: +31 10 233 0578 Product Name: Type TR<sup>™</sup> Cleaner/Degreaser Saturated Wipe or Towel Package

**Chemical Description:** Non-flammable Solvent Azeotrope

**Product Use:** Towelette Saturated with Cleaning Preparation

Emergency Number: +1-651-430-2270

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	CAS #	<u>EC #</u>	Wt
1-Bromopropane	106-94-5	203-445-0	< 30 gm/towel (>95%)
Stabilizers	proprietary		< 2 gm/towel (<5%)

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 as provided in this standard.

## 3. HAZARDS IDENTIFICATION

Emergency Overview:	Use with adequate ventilation; vapors harmful. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Wear gloves. In case of eye contact, flush eyes with water. Keep out of reach of children. Industrial use only.
Eye Contact:	Direct eye contact with vapors or splashes may cause eye irritation.
Skin Contact:	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.
Irritation and Sensitization Potential:	Product may be irritating to skin and eyes. It is not a sensitizer.
Inhalation (Breathing):	Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue) and may cause adverse effects in the liver, lung, and kidney. Persons with impaired lung function may experience additional breathing difficulties due to the irritant properties of this material.
Ingestion (Swallowing):	Maximum amount in a single saturated towel is less than 30 grams of solvent. Not expected to be acutely toxic.

Include hydrogen bromide, bromine, oxides of carbon and oxides of

In case of fire, use extinguishing media suitable for surrounding conditions, possibly water, foam, carbon dioxide, or dry agent.

Towelettes will ignite. If burning, smother or isolate from other

Vapors are heavier than air and may travel considerable distances.

4. FIRST AID MEASURES	4.	FIRST	AID	MEASURES
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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):	Less than 30 grams solvent per package. Do not induce vomiting or give anything by mouth. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention.
5. FIRE-FIGHTING MEASURES	
Flash Point (bulk liquid):	None (TCC) for solvent (bulk).

Flammable Limits (bulk liquid):	Approximately 3-8% in air.
	· [-]- · · · · · · · · · · · · · · · · · ·

nitrogen.

flammable materials.

Autoignition Temperature: Not Available

Hazardous Decomposition and By-Products:

**Extinguishing Media:** 

Special Precautions:

Unusual Hazards:

## 6. ACCIDENTAL RELEASE MEASURES

No spill hazard with saturated towel package.

## 7. HANDLING AND STORAGE

Keep containers and cartons containing saturated wipes tightly closed. Keep containers and cartons 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. Use of pre-saturated towel limits exposure. All wipes should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	Normal ventilation is adequate. Towelette limits solvent vapor exposure. 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:	The use of impermeable gloves is recommended to prevent drying and possible irritation. Use of chemically resistant gloves such as Nitrile for short-term exposure, or Viton or Silvershield for extended exposures is suggested.
Eye Protection:	None necessary. Wipe package eliminates splash hazard. Do not allow wipe/towel to directly contact 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.
Exposure Limits and Recommendations:	<u>Chemical Component</u> <u>OSHA PEL</u> <u>ACGIH TLV</u> An AEL (acceptable exposure limit) of 25 ppm has been
	recommended by the United States EPA. OES/LTEL 100 ppm (525mg/m <sup>3</sup> )

## 9. PHYSICAL AND CHEMICAL PROPERTIES (bulk liquid)

Appearance:	A non-linting towel, lightly saturated with clear, colorless liquid.
Odor Threshold:	Very low
Vapor Density (Air = 1):	4.3
Specific Gravity (H <sub>2</sub> O = 1):	1.33
Solubility in Water:	2.5 grams per liter
Boiling Point:	160°F / 71°C (initial)
Freezing Point:	Not Available
Evaporation Rate:	> 2 (n-butyl acetate = 1)
Vapor Pressure:	>140 mm Hg @ 20°C
Coefficient of Water/Oil Distribution:	Not Available
pH:	Not Applicable
Volatiles (Weight %):	100%
VOC Content:	1330 g/L

# 10. STABILITY AND REACTIVITY

Stability:	Stable	
Conditions to Avoid:	Avoid heat, flame or other hot surfaces that could cause thermal decomposition.	
Materials to Avoid:	Strong alkalis, oxidizers and reactive metals (i.e. potassium, sodium, etc.).	
Hazardous Decomposition Products:	Thermal decomposition products include hydrogen bromide, bromine and oxides of carbon as well as oxides of nitrogen.	
11. TOXICOLOGICAL INFORMATION		
Toxicity to Animals:	Medium Aliphatic Petroleum Solvent	LD <sub>50</sub> (oral rat)  4,260 mg/kg LC <sub>50</sub> (inhl rat)  253,000 mg/m <sup>3</sup> /0.5 hr
Chronic Exposure:	Not Available	$EO_{50}$ (initial) 253,000 mg/m 70.5 m
Carcinogenic Status:	This substance contains less than 1% 1,2 butylene oxide listed as IARC 2B, "Possibly carcinogenic to humans".	
Reproductive Toxicity:	Product may cause reproductive effects based on animal studies. Target organs include kidneys, CNS, liver, and bone marrow.	
Mutagenicity:	Not Available	
Teratogencity:	Not Available	
Toxicologically Synergistic Products:	Not Available	

# 12. ECOLOGICAL INFORMATION

Mobility:	Sinks in water.		
Bioaccumulation:	Low potential.		
Ecotoxicity:	Large volumes may penetrate soil and contaminate groundwater. (Unlikely in towelette package.)		
Ozone Depletion Potential:	0.013 - 0.018		
Other:	Not readily biodegradable, but low atmospheric lifetime.		
Aquatic Toxicity:	1-Bromopropane:	96 h LC <sub>50</sub> Fathead Minnow	67,300 µl/l

# 13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with National and Local Regulations.

## 14. TRANSPORTATION INFORMATION

UN Number:	Not Listed
UN Proper Shipping Name:	Not Applicable
Class and Subsidiary Risk:	Not Applicable
Packing Group:	Not Applicable
TDG:	Not Regulated
ICAO/IATA-DGR:	Not Regulated
IMDG:	Not Regulated
ADR/RID:	Not Regulated

### 15. REGULATORY INFORMATION

#### **USA Federal and State**

All components are listed on the TSCA inventory.

Hazard Categories for SARA	Acute	<u>Chronic</u>	<u>Fire</u>	<b>Pressure</b>	Reactive
Section 311/312 Reporting	Yes	Yes	No	No	No
		CERCLA	VSARA Se	: 302	SARA Sec. 313
<u>Components</u>	Ha	zardous Sub	stance RQ	<u>EHS TPQ</u>	Toxic Release
1,2-Butylene Oxide (CAS# 106-88	-7)	100 lbs	S	No	1%

Type TR<sup>™</sup> Cleaner/Degreaser Solvent Wipes contain less than 1% 1,2 Butylene Oxide as a stabilizer. Any release of 100 lbs or greater must be reported (over 1 million TR-1 Solvent Wipes).

#### **California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

## **European Union**

Product is classified as hazardous according to European Directives 88/379/EEC and 67/548/EEC and EU Regulation (EC) No 1272/2008.

Risk Phrases:	R36/37/38: Irritating to eyes, respiratory system and skin R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation R60: May impair fertility R63: Possible risk of harm to the unborn child R67: Vapors may cause drowsiness and dizziness
Safety Phrases:	S2: Keep out of reach of children S53: Avoid exposure S45: In case or accident or if you feel unwell, seek medical advice immediately.
Symbol:	T: Toxic

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

## Canada

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.

#### Australia

All components are listed on the AICS. Hazardous according to criteria of NOHSC Australia.

Contact Information:	ADAPT Australia Pty. Ltd. 11 - 19 Global Drive	
	Tullamarine Victoria 3043 Telephone Number. 03 9330 0666	

Emergency Telephone Number: 0421 277 889

#### 16. OTHER INFORMATION

NFPA Ratings:	Health:	2
-	Fire:	0
	Reactivity:	0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

Revision Date:	May. 13, 13
<b>Revision Number:</b>	2
Reviewed By:	S. H. Dahlke

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.

TRWipe:MSDS