

# SAFETY DATA SHEET – SET

## FST-BP Foam Sealant Burst Pack Type FST Kit

**Product ID numbers:** FST-BP-200, FST-BP-XXX (where XXX is the package code.)

Date Compiled: October 11, 2018



### Supplier/Manufacturer:

**American Polywater Corporation**

11222 - 60th Street North  
Stillwater, MN 55082 USA  
Tel: 1-651-430-2270  
Email: sds@polywater.com

### Emergency telephone numbers

INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

This product is a kit or a multi-part product with independent components. An SDS for each component is included. Do not separate SDSs.

### Contains

FST Burst Pack Part A SDS  
FST Burst Pack Part B SDS  
Type HP Wipe SDS

SDSs are classified according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).

Each Kit may or may not contain all SDS components

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.

# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company

### 1.1 Product identifier

**Product Name: FST™ Foam Sealant  
Burst Pack FST-BP (Part A)**

**Product ID numbers:** FSTBP-200KIT1, FSTBP-200KIT6;  
FST-BP-XXX (where XXX is the package code.)

### 1.2 Relevant identified uses of the mixture and uses advised against

**Identified uses:** Sealant, duct block; two-part material

**List of advices against:** Not applicable.

### 1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer:**

**American Polywater Corporation**

11222 - 60th Street North

Stillwater, MN 55082 USA

Tel: 1-651-430-2270

Email: sds@polywater.com

### 1.4 Emergency telephone numbers

INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).**

Acute Toxicity, Cat 4; H332

Skin Irritation, Cat 2; H315

Eye Irritation, Cat 2A; H319

Respiratory Sensitization, Cat 1; H334

Skin Sensitization, Cat 1; H317

Target Organ Toxicity (single exposure), Cat 3; H335

Target Organ Toxicity (repeated exposure), Cat 2; H373

### 2.2 Label elements

**Contains:** Polymeric diphenylmethane diisocyanate; 4,4'-Diphenylmethane diisocyanate (MDI)



**Pictograms:**

**Signal word:** Danger

**Hazard Statements:**

- |      |                                                                            |
|------|----------------------------------------------------------------------------|
| H332 | Harmful if inhaled.                                                        |
| H315 | Causes skin irritation.                                                    |
| H317 | May cause an allergic skin reaction.                                       |
| H319 | Causes serious eye irritation.                                             |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |

- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated inhalative exposure.

**Precautionary Statements:**

- P260 Do not breathe fumes.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves, protective clothing and eye protection.
- P284 In case of inadequate ventilation wear respiratory protection.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P304 + P340 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P333 + P313 If skin irritation or rash occurs: Get medical attention.
- P337 + P313 If eye irritation persists: Get medical attention.
- P342 + P311 If experiencing respiratory symptoms: Call a poison center or doctor.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P501 Dispose of contents/container in accordance with local and national regulations.

**Notes:** 4,4'-methylenediphenyl diisocyanate (MDI) has not been designated as a carcinogen by IARC, NTP, ACGIH, OSHA, or the EPA. There are inadequate human carcinogenicity data, and only limited animal data. Additionally, the IARC Working Group noted that tumorigenic effects observed in animals may be attributed to non-specific particle effect (IARC monograph 71). We have not classified substance as a carcinogen, but recommend that users avoid inhalation of vapor above exposure limits.

**2.3 Other hazards:** No information available.

**3. Composition/Information on Ingredients**

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt. %</u>
Polymeric diphenylmethane diisocyanate	9016-87-9		30 - 60
4,4'-Diphenylmethane diisocyanate (MDI)	101-68-8	202-966-0	30 - 60

**4. First Aid Measures**

**4.1 Description of first aid measures**

- Eye Contact:** Immediately flush eyes 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):** If swallowed, rinse mouth and drink plenty of water. Do not induce vomiting. If patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Seek medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

May cause allergic skin and respiratory reaction. Refer to Section 11 for more information.

**4.3 Indication of immediate medical attention and special treatment needed.**

No information available.

**5. Firefighting Measures**

**5.1 Extinguishing media:**

Water Fog, Carbon Dioxide, Dry Chemical or Foam.

**5.2 Special hazards arising from the substance or mixture**

**Hazardous decomposition and by-products:**

Carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.

**5.3 Advice for firefighters**

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.

**6. Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Wear full protective clothing, including appropriate respiratory protection.

**6.2 Environmental precautions:**

Prevent from entering waterways.

**6.3 Methods materials for containment and cleaning up:**

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

**6.4 Reference to other sections:**

Refer to Sections 4, 5, 8, and 13 for more information.

**7. Handling and Storage**

**7.1 Precautions for safe handling**

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. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only.

**7.2 Conditions for safe storage, including incompatibilities**

Keep containers cool, dry, and away from sources of ignition. Keep cartridges capped and sealed. Protect from freezing. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

**7.3 Specific end uses**

See technical data sheet on this product for further information.

**8. Exposure Controls / Personal Protection**

**8.1 Control parameters**

**Exposure limits and recommendations:**

Country/Source	Component	Long-term exposure limit 8 hr. OEL, TWA	Short-term (ceiling) exposure limit – 15 min
USA – ACGIH TWA	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	0.02 ppm
USA – OSHA OEL	4,4'-Diphenylmethane diisocyanate (MDI)	--	0.02 ppm
USA – NIOSH REL	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	0.02 ppm
Canada (Ontario)	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	0.02 ppm
Canada (Québec)	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	--
Canada (British Columbia)	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	0.01 ppm
Canada (Alberta)	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm.	--

Canada (Alberta)	Polymeric diphenylmethane diisocyanate	0.005 ppm	--
Canada (Saskatchewan)	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	0.015 ppm
Canada (Yukon)	4,4'-Diphenylmethane diisocyanate (MDI)	0.02 ppm	--

ACGIH, OSHA and NIOSH have not established any OELs for Polymeric diphenylmethane diisocyanate (pMDI)

**8.2 Exposure controls**

**Respiratory protection:**

Use with adequate ventilation to keep vapor concentration below acceptable limits. Observe OSHA standard 29 CFR 1910-94, 1910.107, 1910.108. Product mixed and used as directed emits less than 0.001 ppm MDI vapor as tested by OSHA 47. Ventilation is not required for standard use. If product is use in a way that 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 chemically resistant gloves is recommended to prevent skin contact. Suitable materials include neoprene, butyl rubber, Viton, Buna N, and chlorinated polyethylene.

**Eye protection:**

Safety glasses recommended.

**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**

**9.1 Information of basic physical and chemical properties**

<b>Appearance:</b>	Brown liquid
<b>Odor threshold:</b>	Faint, aromatic odor
<b>pH:</b>	Does not apply
<b>Freezing point:</b>	3°C
<b>Boiling point:</b>	200°C
<b>Flash point:</b>	428°F / 220°C (open cup)
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Does not apply
<b>Upper/lower flammability or explosive limits:</b>	Not available
<b>Vapor pressure:</b>	.00016 mm Hg @ 20°C
<b>Vapor density (Air = 1):</b>	1.22 g/cm <sup>3</sup>
<b>Specific gravity (H<sub>2</sub>O = 1):</b>	1.22 @ 25°C
<b>Solubility in water:</b>	Reacts
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	> 250°C (1112°F)
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	200 mPas @ 25°C / 77°F

**9.2 Other Information**

<b>Volatiles (Weight %):</b>	0%
<b>VOC Content:</b>	0 g/l

**10. Stability and Reactivity**

**10.1 Reactivity:**

Reacts with water, reacts with substances which contain active hydrogen.

**10.2 Chemical stability:**

Stable

**10.3 Possibility of hazardous reactions:**

Hazardous reactions will not occur under normal transport or storage conditions.

**10.4 Conditions to avoid:**

Avoid freezing, high temperatures, flame, high humidity and water contamination.

**10.5 Incompatible materials :**

Water, alcohols, amines, acids, alkalis, metal compounds.

**10.6 Hazardous decomposition products:**

Carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.

<b>11. Toxicological Information</b>
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**11.1 Information on toxicological effects:****Acute toxicity****Eye contact:**

Direct eye contact with material or vapors may cause eye irritation.

**Skin contact:**

Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material. Allergic skin reaction symptoms include redness, swelling, blistering and itching.

**Irritation and Sensitization Potential:**

Product may be irritating to skin and eyes.

**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:**

Ingestion may cause irritation of the gastrointestinal tract.

**Toxicity to Animals:**

4,4'-Diphenylmethane diisocyanate (MDI):	LD <sub>50</sub> (oral rat) >2,000 mg/kg
	LD <sub>50</sub> (dermal rabbit) >9,400 mg/kg
	LC <sub>10</sub> (inhl rat) 2.24 mg/m <sup>3</sup> , 1 hour, aerosol form

**Aspiration Hazard:**

No aspiration hazard expected.

**Chronic Exposure:**

**Reproductive Toxicity:** Not available.

**Mutagenicity:** Not available.

**Teratogenicity:** Not available.

**Specific Target Organ Toxicity (STOT)** Contains material which causes damage to the upper respiratory tract.

**Toxicologically Synergistic Products:** Not available.

**Carcinogenic Status:** This substance contains components identified as IARC Category 3, not classifiable.  
4,4'-methylenediphenyl diisocyanate (MDI) has not been designated as a carcinogen by IARC, NTP, ACGIH, OSHA, or the EPA. There are inadequate human carcinogenicity data, and only limited animal data. Additionally, the IARC Working Group noted that tumorigenic effects observed in animals may

be attributed to non-specific particle effect (IARC monograph 71). We have not classified substance as a carcinogen, but recommend that users avoid inhalation of vapor above exposure limits.

**Respiratory/Skin Sensitization**

May cause sensitization by inhalation and skin contact..

**12. Ecological Information**

**12.1 Toxicity:**

**Aquatic Toxicity:**

- 4,4'-Diphenylmethane diisocyanate (MDI): LC<sub>50</sub> (96 hr.): > 1,000 mg/l Brachydanio rerio (fish)  
OECD Guideline 203 static
- 4,4'-Diphenylmethane diisocyanate (MDI): EC<sub>50</sub> (24 hr.): > 1,000 mg/l Daphnia magna (invertebrate)  
OECD Guideline 202, part 1 static
- 4,4'-Diphenylmethane diisocyanate (MDI): EC<sub>50</sub> (72 hr.): 1,640 mg/l Green algae (aquatic plants)  
OECD Guideline 201 static

**12.2 Persistence and degradability:**

Elimination information:  
<10% BOD of the ThOD (28d)  
(OECD Guideline 302 C, aerobic, activated sludge)  
Under test conditions, poorly biodegradable.

**12.3 Bioaccumulation potential:**

Accumulation in organisms is not to be expected.

**12.4 Mobility in soil:**

Adsorption to solid soil phase is not expected

**12.5 Results of PBT and vPvB Assessment:**

This product is not, nor does it contain a substance that is a PBT or vPvB.

**12.6 Other adverse effects:**

None known.

**13. Disposal Considerations**

Dispose of product in accordance with National and Local Regulations.

**14. Transport Information**

- UN Number: Not Listed
- UN Proper shipping name: Not Applicable
- Transport hazard class(es): Not Applicable
- Packing group: Not Applicable
- Environmental hazards: None known
- Special precautions: None known
- TDG: Not Regulated
- ICAO/IATA-DGR: Not Regulated
- IMDG: Not Regulated
- ADR/RID: Not Regulated

**15. Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**USA Federal and State**

All components are listed on the TSCA inventory.

**Hazard Categories for SARA Section 311/312 Reporting**

Acute  
Yes

Chronic  
Yes

Fire  
No

Pressure  
No

Reactive  
No

<u>Components</u>	<u>Hazardous Substance RQ</u>	<u>EHS TPQ</u>	<u>Toxic Release</u>
4,4'-Diphenylmethane diisocyanate (MDI)	Yes (5,000 lbs.)	No	Yes (1%)
Polymeric diphenylmethane diisocyanate	No	No	Yes (1%)

**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.

**California Proposition 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm or has been assessed to be below OEHHA Safe Harbor exposure levels required for labeling.

**European Union**

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Contains no substance on the REACH candidate list ≥ 0.1% SCL. Does not contain notified substances from the ELINCS List, Directive 92/32/EEC. Meets labeling and kitting requirements found in Entry 56 of Annex XVII.

**Canada**

All components are listed on the DSL inventory. This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**15.2 Chemical Safety Assessment**

No chemical safety assessment has been carried out for the mixture by the supplier.

**16. Other Information**

**Abbreviations and acronyms:**

- OSHA = Occupational Safety and Health Administration
- CLP = Classification, Labeling and Packaging Regulation
- STOT = Specific Target Organ Toxicity
- LD<sub>50</sub> = Median Lethal Dose
- DNEL = Derived No Effect Level
- ACGIH = American Conference of Governmental Industrial Hygienists
- TSCA = Toxic Substances Control Act (USA)
- DSL = Domestic Substances List (Canada)
- AICS = Australian Inventory of Chemical Substances

**Mixture classification according to Regulation (EC) No 1272/2008:**

- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H334 inhaled.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated inhalative exposure.

**Classification Procedure**

- Calculation method.
- Calculation method.
- Calculation method.
- Calculation method.
- Calculation method.
- Calculation method.
- Calculation method.

**Revision Date:** September 21, 2018  
**Revision Number:** 3 NA



**Product Name:** FST™ Foam Sealant Burst Pack FST-**BP** (Part A)

**Revision Date:** September 21, 2018

**Supersedes:** August 9, 2017

**Other:** Not Applicable

**Indication of Changes:** Section 3, 15 updated; format updates and additional California Proposition 65 information. Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and Canada HPR (SOR/2015-17) (WHMIS 2015). (GHS format)

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.

# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company

### 1.1 Product identifier

**Product Name: FST™ Foam Sealant  
Burst Pack FST-BP (Part B)**

**Product ID numbers:** FSTBP-200KIT1, FSTBP-200KIT6;  
FST-BP-XXX (where XXX is the package code.)

### 1.2 Relevant identified uses of the mixture and uses advised against

**Identified uses:** Sealant, duct block; two-part material

**List of advices against:** Not applicable.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier/Manufacturer:

**American Polywater Corporation**

11222 - 60th Street North

Stillwater, MN 55082 USA

Tel: 1-651-430-2270

Email: sds@polywater.com

### 1.4 Emergency telephone numbers

INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).**

Acute Toxicity, Cat 4; H302

Skin Irrit., Cat 2; H315

Eye Irrit., Cat. 2A; H319

Skin Sens., Cat. 1; H317

### 2.2 Label elements

**Contains:** 2-Propanol,1-chloro-, Phosphate (3:1)



#### Pictograms:

**Signal word:** Warning

#### Hazard Statements:

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

#### Precautionary Statements:

P270 Do not eat drink or smoke when using this product.  
P280 Wear protective gloves, protective clothing and eye protection.  
P301 + P312 IF SWALLOWED: Call a doctor if you feel unwell.  
P330 Rinse mouth.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313	If skin irritation or rash occurs: Get medical attention.
P362 + P364	Take off contaminated clothing and wash before reuse.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical attention.
P501	Dispose of contents in accordance with local regulations.

**2.3 Other hazards:** No information available.

**3. Composition/Information on Ingredients**

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt. %</u>
Polyether polyol mixture	Proprietary	--	60 - 100
2-propanol, 1-chloro-, Phosphate (3:1)	13674-84-5	237-158-7	10 - 30
Modifiend Isophoronediamine	90530-15-7	292-053-3	0.5 – 1.5
Tertiary amine compounds	Proprietary	--	0.1 - 1

**4. First Aid Measures**

**4.1 Description of first aid measures**

- Eye Contact:** Immediately flush eyes 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):** If swallowed, get medical attention. Do not induce vomiting. If patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

**4.2 Most important symptoms and effects, both acute and delayed**

No information available.

**4.3 Indication of immediate medical attention and special treatment needed.**

No information available.

**5. Firefighting Measures**

**5.1 Extinguishing media:**

Water Fog, Carbon Dioxide, Dry Chemical or Foam.

**5.2 Special hazards arising from the substance or mixture**

**Hazardous decomposition and by-products:**

Carbon monoxide, carbon dioxide, phosphorus oxides, silicon dioxide, hydrogen chloride gas.

**5.3 Advice for firefighters**

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.

**6. Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Wear full protective clothing, including appropriate respiratory protection.

**6.2 Environmental precautions:**

Prevent from entering waterways.

**6.3 Methods materials for containment and cleaning up:**

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

**6.4 Reference to other sections:**

Refer to Sections 4, 5, 8, and 13 for more information.

**7. Handling and Storage****7.1 Precautions for safe handling**

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. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only.

**7.2 Conditions for safe storage, including incompatibilities**

Keep containers dry, and away from excessive heat. Keep cartridges capped and sealed. Protect from freezing. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

**7.3 Specific end uses**

See technical data sheet on this product for further information.

**8. Exposure Controls / Personal Protection****8.1 Control parameters****Exposure limits and recommendations:**

Contains no components with established Occupational Exposure Limit (OEL) values.

**8.2 Exposure controls****Respiratory protection:**

Use with adequate ventilation to keep vapor concentration below acceptable limits.

**Protective gloves:**

The use of chemically resistant gloves is recommended to prevent skin contact. Suitable materials include neoprene, butyl rubber, Viton, Buna N, and chlorinated polyethylene.

**Eye protection:**

Safety glasses recommended.

**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****9.1 Information of basic physical and chemical properties**

<b>Appearance:</b>	Clear to light amber liquid
<b>Odor threshold:</b>	Mild amine odor
<b>pH:</b>	Not available
<b>Freezing point:</b>	Not available
<b>Boiling point:</b>	>392°F / >200°C
<b>Flash point:</b>	>360°F / >182°C (PMCC)
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Does not apply
<b>Upper/lower flammability or explosive limits:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density (Air = 1):</b>	Not available
<b>Specific gravity (H<sub>2</sub>O = 1):</b>	Not available
<b>Solubility in water:</b>	Not available

<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available

## 9.2 Other Information

<b>Volatiles (Weight %):</b>	0%
<b>VOC Content:</b>	0 g/l

## 10. Stability and Reactivity

### 10.1 Reactivity:

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability:

Stable

### 10.3 Possibility of hazardous reactions:

Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4 Conditions to avoid:

Avoid freezing, high temperatures, and moisture.

### 10.5 Incompatible materials :

Isocyanates, strong oxidizing agents and strong bases.

### 10.6 Hazardous decomposition products:

Carbon monoxide, carbon dioxide, phosphorus oxides, silicon dioxide, hydrogen chloride gas.

## 11. Toxicological Information

### 11.1 Information on toxicological effects:

#### Acute toxicity

##### Eye contact:

Direct eye contact with material or vapors may cause eye irritation.

##### Skin contact:

May cause skin irritation

##### Irritation and Sensitization Potential:

Not considered a skin sensitizer.

##### Inhalation (Breathing):

May cause respiratory irritation.

##### Ingestion:

Harmful if swallowed.

##### Toxicity to Animals:

2-propanol, 1-chloro-, Phosphate (3:1)	LD <sub>50</sub> (oral rat) 1,500 mg/kg
	LD <sub>50</sub> (dermal rabbit) 1,230 mg/kg
	LC <sub>10</sub> (inhl rat) 5 mg/m <sup>3</sup> , 4 hours

##### Aspiration Hazard:

No aspiration hazard expected.

#### Chronic Exposure:

**Reproductive Toxicity:** Not available.

**Mutagenicity:** Not available.

**Teratogenicity:** Not available.

**Specific Target Organ**

**Toxicity (STOT)** Not available.

**Toxicologically Synergistic Products:**

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.

**12. Ecological Information**

**12.1 Aquatic Toxicity:** No information available.

**12.2 Persistence and degradability:** No information available.

**12.3 Bioaccumulation potential:** No information available.

**12.4 Mobility in soil:** No information available.

**12.5 Results of PBT and vPvB Assessment:** This product is not, nor does it contain a substance that is a PBT or vPvB.

**12.6 Other adverse effects:** None known.

**13. Disposal Considerations**

Dispose of product in accordance with National and Local Regulations.

**14. Transport Information**

**UN Number:** Not Listed  
**UN Proper shipping name:** Not Applicable  
**Transport hazard class(es):** Not Applicable  
**Packing group:** Not Applicable  
**Environmental hazards:** None known  
**Special precautions:** None known  
**TDG:** Not Regulated  
**ICAO/IATA-DGR:** Not Regulated  
**IMDG:** Not Regulated  
**ADR/RID:** Not Regulated

**15. Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**USA Federal and State**

All components are listed on the TSCA inventory.

<b>Hazard Categories for SARA Section 311/312 Reporting</b>	<u>Acute</u> Yes	<u>Chronic</u> No	<u>Fire</u> No	<u>Pressure</u> No	<u>Reactive</u> No
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<b><u>Components</u></b>	<b>CERCLA/SARA Sec 302 <u>Hazardous Substance RQ</u></b>	<b><u>EHS TPQ</u></b>	<b>SARA Sec. 313 <u>Toxic Release</u></b>
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The components of Foam Sealant FST - Part B are not affected by these Superfund regulations.

**NFPA Ratings:**

Health:	2
Fire:	1
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.

**California Proposition 65**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm or has been assessed to be below OEHHA Safe Harbor exposure levels required for labeling.

**European Union**

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Contains no substance on the REACH candidate list  $\geq 0.1\%$  SCL. Does not contain notified substances from the ELINCS List, Directive 92/32/EEC. Contains no REACH substances with Annex XVII restrictions.

**Canada**

All components are listed on the DSL inventory.

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

**Australia**

All components are listed on the AICS.

**15.2 Chemical Safety Assessment**

No chemical safety assessment has been carried out for the mixture by the supplier.

**16. Other Information**

**Abbreviations and acronyms:**

- OSHA = Occupational Safety and Health Administration
- CLP = Classification, Labeling and Packaging Regulation
- STOT = Specific Target Organ Toxicity
- LD<sub>50</sub> = Median Lethal Dose
- DNEL = Derived No Effect Level
- ACGIH = American Conference of Governmental Industrial Hygienists
- TSCA = Toxic Substances Control Act (USA)
- DSL = Domestic Substances List (Canada)
- AICS = Australian Inventory of Chemical Substances

**Mixture classification according to Regulation (EC) No 1272/2008:**

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

**Classification Procedure**

- Calculation method.
- Calculation method.
- Calculation method.
- Calculation method.

<b>Revision Date:</b>	September 21, 2018
<b>Revision Number:</b>	3 NA
<b>Supersedes:</b>	August 16, 2017
<b>Other:</b>	Not Applicable
<b>Indication of Changes:</b>	Section 3, 15 updated; format updates and additional California Proposition 65 information. Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and Canada HPR (SOR/2015-17) (WHMIS 2015). (GHS format)

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.

# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company

### 1.1 Product identifier

**Product Name:**  
**Type HP™ Cleaner/Degreaser**  
**Saturated Towel/Wipe Package**

**Product ID numbers:** HP-1, HP-1B, HP-1M,  
HP-P158ID, HP-P158IDB, HP-P158IDM, HP-3P158IDS, HP-6P158ID,  
HP-P1K, HP-P63  
HP-D72, HP-D72E,  
HP-P31212, HP-P369,  
HP-T369, HP-T369/S, HP-T369/SH, HP-T369/SH48, HP-T369/S-D

### 1.2 Relevant identified uses of the mixture and uses advised against

**Identified uses:** Electrical cleaning

**List of advices against:** Not applicable.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier/Manufacturer:

#### American Polywater Corporation

11222 - 60th Street North  
Stillwater, MN 55082 USA  
Tel: 1-651-430-2270  
Email: sds@polywater.com

### 1.4 Emergency telephone numbers

INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).**

Skin Sens 1 H317

Flam Liq 4 H227

### 2.2 Label elements

**Contains:** Petroleum distillates, hydrotreated light; d-Limonene



**Pictograms:**

**Signal word:** Warning

**Hazard Statements:**

H227 Combustible liquid



H317 May cause an allergic skin reaction.

**Precautionary Statements:**

P210 Keep away from flames and hot surfaces. No smoking.  
P261 Avoid breathing fumes.  
P280 Wear protective gloves.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local and national regulations.

**Notes:** Aspiration classification not applied due to the physical form of the product.

**2.3 Other hazards:** No information available.

**3. Composition/Information on Ingredients**

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt. %</u>
Petroleum distillates, hydrotreated light	64742-47-8	265-149-8	< 100
d-Limonene	5989-27-5	227-813-5	< 10

**4. First Aid Measures**

**4.1 Description of 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):** 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.

**4.2 Most important symptoms and effects, both acute and delayed**  
Refer to Section 11 for more information.

**4.3 Indication of immediate medical attention and special treatment needed.**  
No information available.

**5. Firefighting Measures**

**5.1 Extinguishing media:**

Carbon dioxide, water fog, dry chemical or foam.

**5.2 Special hazards arising from the substance or mixture**

**Hazardous decomposition and by-products:**

Burning generates CO, CO<sub>2</sub> and smoke. Smoke may be acrid and fumes irritating.

**5.3 Advice for firefighters**

Wear full protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Sealed container can build up pressure when exposed to high heat. Use water spray to cool fire exposed containers.

**6. Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Limited spill hazard with saturated towel package.

**6.2 Environmental precautions:**

Avoid release to the environment.

**6.3 Methods materials for containment and cleaning up:**

Collect towel and absorb any excess material with sand or absorbents.

**6.4 Reference to other sections:**

Refer to Sections 4, 5, 8, and 13 for more information.

**7. Handling and Storage**

**7.1 Precautions for safe handling**

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing vapors or spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only. Avoid contact with oxidizing agents (e.g. chlorine, chromic acid etc.)

**7.2 Conditions for safe storage, including incompatibilities**

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store away from acids and oxidizing agents.

**7.3 Specific end uses**

See technical data sheet on this product for further information.

**8. Exposure Controls / Personal Protection**

**8.1 Control parameters**

**Exposure limits and recommendations:**

**Petroleum Distillates, hydrotreated light (64742-47-8)**

Country/Source	Long-term exposure limit – 8 hr. TWA	Short-term exposure limit – 15 min
Manufacturer, RCP* TWA	1200 mg/m <sup>3</sup>	--
USA, ACGIH TWA	Not established	Not established
USA, OSHA PEL	2000 mg/m <sup>3</sup> , 500 ppm (as petroleum distillates (naphtha))	--
British Columbia	200 mg/m <sup>3</sup>	--
Alberta, Quebec, Yukon, Saskatchewan, Ontario*	Not established	--

**D-Limonene (5989-27-5)**

Country/Source	Long-term exposure limit – 8 hr. TWA	Short-term exposure limit – 15 min
USA ACGIH TWA	Not established	Not established
USA OSHA PEL	Not established	Not established
Alberta, Quebec, Yukon, British Columbia, Saskatchewan, Ontario*	Not established	Not established

\* reciprocal calculation procedure for total hydrocarbons

\*\* Manitoba, Newfoundland and Labrador, Nova Scotia, and Prince Edward Island are all based on the current ACGIH TLVs. New Brunswick is based on an older version ACGIH. Nunavet and Northwest Territories are based heavily on current ACGIH TLVs.

**8.2 Exposure controls**

**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 or CE approved) with particulate pre-filter, P100 or AP2.

**Protective gloves:**

For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation.

Suggested Material: Nitrile Rubber

Suggested Thickness: For short term contact (<15 minutes), splashes use 0.2 mm. For full contact use 0.4 mm

Exact break-through time has not been determined. Guidance is based on similar chemistry/material.

Maximum wearing time should be determined based on 50 % of the penetration time determined by EN 374 part III.

**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.

**9. Physical and Chemical**

**9.1 Information of basic physical and chemical properties (bulk liquid)**

<b>Appearance:</b>	Clear, colorless liquid with a very light citrus scent.
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Does not apply
<b>Freezing point:</b>	<-58°F (<-50°C)
<b>Boiling point:</b>	365°F (185°C) Initial
<b>Flash point:</b>	>140°F (>60.5°C), Closed Cup (PMCC)
<b>Evaporation rate:</b>	<0.1 (n-butyl acetate = 1)
<b>Flammability (solid, gas):</b>	Not applicable to liquids
<b>Upper/lower flammability or explosive limits:</b>	LEL = 0.7% UEL = 6.1%-7.0%
<b>Vapor pressure:</b>	<1 mm Hg < 134 Pa @ 20°C
<b>Vapor density (Air = 1):</b>	> 1.0
<b>Specific gravity (H<sub>2</sub>O = 1):</b>	0.79
<b>Solubility in water:</b>	Nil
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available

**9.2 Other Information**

<b>Volatiles (Weight %):</b>	100%
<b>VOC Content:</b>	790 g/l

**10. Stability and Reactivity**

**10.1 Reactivity:**

See remaining headings in Section 10.

**10.2 Chemical stability:**

Stable

**10.3 Possibility of hazardous reactions:**

None known.

**10.4 Conditions to avoid:**

Avoid heat, flame, and sparks.

**10.5 Incompatible materials :**

Strong oxidizing agents.

**10.6 Hazardous decomposition products:**

Carbon dioxide, carbon monoxide.

**11. Toxicological Information**

**11.1 Information on toxicological effects:**

**Acute toxicity**

**Eye contact:**

Direct eye contact may cause eye irritation. This irritation is minimal and expected to be transient.

**Skin contact:**

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:**

Product may be irritating to skin and eyes. It may cause an allergic skin reaction.

**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:**

Ingestion of large quantities may cause irritation of the digestive tract, nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

**Toxicity to Animals:**

Petroleum distillates, hydrotreated light:	LD <sub>50</sub> (oral rat) >5000 mg/kg
	LD <sub>50</sub> (dermal rabbit) >2000 mg/kg
	LC <sub>50</sub> (inhl rat) >4.3mg/L, 4 hours
d-Limonene:	LD <sub>50</sub> (oral rat) >5000 mg/kg
	LD <sub>50</sub> (dermal rabbit) 5000 mg/kg
	RD <sub>50</sub> 1000 ppm

**Aspiration hazard**

Liquid solvent has an aspiration hazard. This route of exposure is not expected for towelette form.

**Chronic Exposure:**

**Reproductive Toxicity:** Not available.

**Mutagenicity:** Not available.

**Teratogenicity:** Not available.

**Specific Target Organ Toxicity (STOT)** No end point data.

**Toxicologically Synergistic Products:** 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.

**12. Ecological Information**

**12.1 Toxicity:**

<b>Ecotoxicity:</b>	No information available.
<b>Aquatic Toxicity:</b>	No information available.
<b>12.2 Persistence and degradability:</b>	Expected to be biodegradable.
<b>12.3 Bioaccumulation potential:</b>	No information available
<b>12.4 Mobility in soil:</b>	No information available.
<b>12.5 Results of PBT and vPvB Assessment:</b>	This product is not, nor does it contain a substance that is a PBT or vPvB.
<b>12.6 Other adverse effects:</b>	None known.

**13. Disposal Considerations**

Dispose of product in accordance with National and Local Regulations.

**14. Transport Information**

<b>UN Number:</b>	Not Listed
<b>UN Proper shipping name:</b>	Not Applicable
<b>Transport hazard class(es):</b>	Not Applicable
<b>Packing group:</b>	Not Applicable
<b>Environmental hazards:</b>	None known
<b>Special precautions:</b>	None known
<b>TDG:</b>	Not Regulated
<b>ICAO/IATA-DGR:</b>	Not Regulated
<b>IMDG:</b>	Not Regulated
<b>ADR/RID:</b>	Not Regulated

**15. Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**USA Federal and State**

All components are listed on the TSCA inventory.

<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>Components</b>	<b>CERCLA/SARA Sec 302 Hazardous Substance RQ</b>	<b>EHS TPQ</b>	<b>SARA Sec. 313 Toxic Release</b>
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Components are not affected by these Superfund regulations.

<b>NFPA Ratings:</b>	Health:	1
	Fire:	2
	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.

**California Proposition 65**

WARNING: This product can expose you to benzene, ethylbenzene, cumene, and naphthalene which are known to the state of California to cause cancer, and toluene and benzene which are known to the State of California to cause birth defects and/or other reproductive harm. For more information, go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

**European Union**

**Product Name:** Type HP™ Cleaner/Degreaser, Saturated Towelette Package **Revision Date:** September 21, 2018

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Contains no substance on the REACH candidate list  $\geq 0.1\%$  SCL. Does not contain notified substances from the ELINCS List, Directive 92/32/EEC. Contains no REACH substances with Annex XVII restrictions.

#### **Canada**

All components are listed on the DSL inventory.

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

#### **Australia**

All components are listed on the AICS.

Hazardous according to criteria of NOHSC Australia. Product classified as harmful (Xn).

### **15.2 Chemical Safety Assessment**

No chemical safety assessment has been carried out for the mixture by the supplier.

## **16. Other Information**

#### **Abbreviations and acronyms:**

OSHA = Occupational Safety and Health Administration

CLP = Classification, Labeling and Packaging Regulation

STOT = Specific Target Organ Toxicity

LD<sub>50</sub> = Median Lethal Dose

DNEL = Derived No Effect Level

ACGIH = American Conference of Governmental Industrial Hygienists

TSCA = Toxic Substances Control Act (USA)

DSL = Domestic Substances List (Canada)

AICS = Australian Inventory of Chemical Substances

#### **Mixture classification according to Regulation (EC) No 1272/2008:**

H227 Combustible liquid

H317 May cause an allergic skin reaction.

#### **Classification Procedure**

Physical Testing

Calculation method.

**Revision Date:** September 21, 2018

**Revision Number:** 6 NA

**Supersedes:** July 31, 2017

**Other:** Not Applicable

**Indication of Changes:** Section 3, 15 updated; format updates and additional California Proposition 65 information. Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and Canada HPR (SOR/2015-17) (WHMIS 2015). (GHS format)

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.