SAFETY DATA SHEET – SET

Foam Sealant Type FST Kit

Product ID numbers: FST-250, FST-250KIT, FST-MINI-1, FST-XXX (where XXX is the package code.)

Date Compiled: October 6, 2015

Supplier/Manufacturer:
American Polywater Corporation
11222 - 60th Street North
Stillwater, MN 55082 USA
Tel: 1-651-430-2270
Email: sds@polywater.com

Polywater Europe BV
Zuidhaven 9-11 Unit B2
4761 CR Zevenbergen
Netherlands
Tel: +31 (0)10 2330578
Email: sds@polywater.com

Emergency telephone numbers
INFOTRAC 1-352-323-3500 (USA)

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-A Foam Sealant Part A SDS
FST-B Foam Sealant Part B SDS
HPWipe Cleaning Towelette

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: Foam Sealant FST (Part A)

Product ID numbers: FST-250, FST-250KIT, FST-MINI-1, FST-MINI-1GFST-MINI-B6, FST-MINI-B6 FST-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

Polywater Europe BV
Zuidhaven 9-11 Unit B2
4761 CR Zevenbergen
Netherlands
Tel: +31 (0)10 2330578
Email: sds@polywater.com

1.4 Emergency telephone numbers

INFOTRAC 1-352-323-3500 (USA)

2. Hazards Identification

2.1 Classification of the substance or mixture

Acute Toxicity, Cat 4
Skin Irritation, Cat 2; H315
Eye Irritation, Cat 2A; H319
Respiratory Sensitization, Cat 1; H334
Skin Sensitization, Cat 1; H317
Carcinogenicity, Cat 2; H351
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.
H351 Suspected of causing cancer.
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.
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.
P308 + P313 If exposed or concerned: Get medical attention.
P362 + P364 Take off contaminated clothing and wash before reuse.

2.3 Other hazards: No information available.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>EC #</th>
<th>Wt. %</th>
<th>GHS/CLP Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymeric diphenylmethane</td>
<td>9016-87-9</td>
<td>30-60</td>
<td></td>
<td>Acute Tox 4, Skin Irrit 2, Eye Irrit 2, Resp Sens1, STOT SE 3, STOT RE 2</td>
</tr>
<tr>
<td>diisocyanate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,4'-Diphenylmethane diisocyanate (MDI)</td>
<td>101-68-8</td>
<td>202-966-0</td>
<td>30-60</td>
<td>Acute Tox 4, Skin Sens 1, Skin Irrit 2, Eye Irrit 2, Resp Sens1, STOT SE 3, Carc 2, STOT RE 2</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Limit</th>
<th>Standard</th>
<th>Source/Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-Diphenylmethane diisocyanate (MDI)</td>
<td>0.02 ppm</td>
<td>OSHA TWA</td>
<td>United States</td>
</tr>
<tr>
<td>4,4’-Diphenylmethane diisocyanate (MDI)</td>
<td>0.005 ppm</td>
<td>ACGIH TWA</td>
<td>United States</td>
</tr>
<tr>
<td>4,4’-Diphenylmethane diisocyanate (MDI)</td>
<td>0.051 mg/m$^3$</td>
<td>OEL TWA</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td>Polymeric diphenylmethane diisocyanate</td>
<td>0.02 ppm</td>
<td>OSHA TWA</td>
<td>United States</td>
</tr>
</tbody>
</table>

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 dispensed through a static mixer 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

- **Appearance:** Brown liquid
- **Odor threshold:** Faint, aromatic odor
- **pH:** Does not apply
- **Freezing point:** 3°C
- **Boiling point:** 200°C
- **Flash point:** 428°F / 220°C (open cup)
- **Evaporation rate:** Not available
- **Flammability (solid, gas):** Does not apply
- **Upper/lower flammability or explosive limits:** Not available
- **Vapor pressure:** .00016 mm Hg @ 20°C
- **Vapor density (Air = 1):** 1.22 g/cm³
- **Specific gravity (H₂O = 1):** 1.22 @ 25°C
- **Solubility in water:** Reacts
- **Partition coefficient: n-octanol/water:** Not available
- **Auto-ignition temperature:** > 250°C (1112°F)
- **Decomposition temperature:** Not available
- **Viscosity:** 200 mPas @ 25°C / 77°F

9.2 Other Information

- **Volatile (Weight %):** 0%
- **VOC Content:** 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.

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:**
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$_{50}$ (oral rat) >2,000 mg/kg
  - LD$_{50}$ (dermal rabbit) >9,400 mg/kg
  - LC$_{10}$ (inhl rat) 2.24 mg/m$^3$, 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.

**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$_{50}$ (96 hr): > 1,000 mg/l Brachydanio rerio (fish)
  - OECD Guideline 203 static
- 4,4’-Diphenylmethane diisocyanate (MDI):
  - EC$_{50}$ (24 hr): > 1,000 mg/l Daphnia magna (invertebrate)
  - OECD Guideline 202, part 1 static
- 4,4’-Diphenylmethane diisocyanate (MDI):
  - EC$_{50}$ (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.

<table>
<thead>
<tr>
<th>Hazard Categories for SARA Section 311/312 Reporting</th>
<th>Acute</th>
<th>Chronic</th>
<th>Fire</th>
<th>Pressure</th>
<th>Reactive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,4’-Diphenylmethane diisocyanate (MDI)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polymeric diphenylmethane diisocyanate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Components                                            |       |         |      |          |          |
| 4,4’-Diphenylmethane diisocyanate (MDI)                |       |         |      |          |          |
| Polymeric diphenylmethane diisocyanate                |       |         |      |          |          |

CERCLA/SARA Sec 302
<table>
<thead>
<tr>
<th>Hazardous Substance RQ</th>
<th>EHS TPQ</th>
<th>Toxic Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes (5,000 lbs)</td>
<td>No</td>
<td>Yes (1%)</td>
</tr>
</tbody>
</table>

SARA Sec. 313
<table>
<thead>
<tr>
<th>RQ</th>
<th>EHS TPQ</th>
<th>Toxic Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes (1%)</td>
<td>No</td>
<td>Yes (1%)</td>
</tr>
</tbody>
</table>

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.

European Union
All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

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.

WHMIS Classification: Class D, Division 2A

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$_{50}$ = 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

Revision Date: October 5, 2015
Revision Number: 8
Supersedes: August 5, 2015
Other: Not Applicable
Indication of Changes: Section 2.2 updated in accordance with the provisions of OSHA 1910.1200 App D and REACH Annex II (EU No 453/2010). (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:**
Foam Sealant
FST (Part B)

**Product ID numbers:** FST-250, FST-250KIT, FST-MINI-1, FST-MINI-1GFST-MINI-B6, FST-MINI-B6
FST-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

Polywater Europe BV
Zuidhaven 9-11 Unit B2
4761 CR Zevenbergen
Netherlands
Tel: +31 (0)10 2330578
Email: sds@polywater.com

1.4 Emergency telephone numbers

INFOTRAC 1-352-323-3500 (USA)

2. Hazards Identification

2.1 Classification of the substance or mixture

**Classification according to OSHA 29 CFR 1910.1200 and Regulation (EC) No 1272/2008.**
Acute Toxicity, Cat 4; H302

2.2 Label elements

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

**Pictograms:**

**Signal word:** Warning

**Hazard Statements:**
H302 Harmful if swallowed.

**Precautionary Statements:**
P270 Do not eat drink or smoke when using this product.
P301 + P312 IF SWALLOWED: Call a doctor if you feel unwell.
P330 Rinse mouth.

2.3 Other hazards: No information available.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>EC #</th>
<th>Wt. %</th>
<th>GHS/CLP Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether polyol mixture</td>
<td>Proprietary</td>
<td>--</td>
<td>60 - 100</td>
<td></td>
</tr>
<tr>
<td>2-propanol, 1-chloro-, Phosphate (3:1)</td>
<td>13674-84-5</td>
<td>237-158-7</td>
<td>10 - 30</td>
<td>Acute Tox. 4</td>
</tr>
<tr>
<td>Tertiary amine compounds</td>
<td>Proprietary</td>
<td>--</td>
<td>0.1 - 1</td>
<td></td>
</tr>
</tbody>
</table>
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
   
   Appearance: Clear to light amber liquid
   Odor threshold: Mild amine odor
   pH: Not available
   Freezing point: Not available
   Boiling point: Not available
   Flash point: >350°F / >177°C (PMCC)
   Evaporation rate: Not available
   Flammability (solid, gas): Does not apply
   Upper/lower flammability or explosive limits: Not available
   Vapor pressure: Not available
   Vapor density (Air = 1): Not available
   Specific gravity (H₂O = 1): 1.1 @ 25°C
   Solubility in water: Not available
   Partition coefficient: n-octanol/water: Not available
   Auto-ignition temperature: Not available
   Decomposition temperature: Not available
   Viscosity: 650 cps @ 25°C / 77°F

9.2 Other Information
   
   Volatiles (Weight %): 0%
   VOC Content: 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)       \( \text{LD}_{50} \) (oral rat) 1,500 mg/kg
\( \text{LD}_{50} \) (dermal rabbit) 1,230 mg/kg
\( \text{LC}_{10} \) (inhl rat) 5 mg/m\(^3\), 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.

<table>
<thead>
<tr>
<th>Hazard Categories for SARA Section 311/312 Reporting</th>
<th>Acute</th>
<th>Chronic</th>
<th>Fire</th>
<th>Pressure</th>
<th>Reactive</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERCLA/SARA Sec 302 Hazardous Substance RQ</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>SARA Sec. 313 Toxic Release EHS TPQ</td>
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</table>

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

NFPA Ratings:
Health: 1
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.

European Union
All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

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.

WHMIS Classification: Not Classified.

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.
## Abbreviations and acronyms:
- OSHA = Occupational Safety and Health Administration
- CLP = Classification, Labeling and Packaging Regulation
- STOT = Specific Target Organ Toxicity
- LD50 = 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

### Hazard Statements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
</tbody>
</table>

---

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-1C, HP-1M,
HP-P158ID, HP-P158IDB, HP-P158IDC, HP-P158IDM, HP-3P158IDS, HP-6P158ID,
HP-P1K, HP-P63, HP-P63C
HP-D72, HP-D72C, HP-D72E,
HP-P31212, HP-P369,

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

Polywater Europe BV
Zuidhaven 9-11 Unit B2
4761 CR Zevenbergen
Netherlands
Tel: +31 (0)10 2330578
Email: sds@polywater.com

1.4 Emergency telephone numbers

INFOTRAC 1-352-323-3500 (USA)

2. Hazards Identification

2.1 Classification of the substance or mixture

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.
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.
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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>EC #</th>
<th>Wt. %</th>
<th>GHS/CLP Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated light</td>
<td>64742-47-8</td>
<td>265-149-8</td>
<td>&lt; 100</td>
<td>Asp. Tox. 1 H304; EUH066</td>
</tr>
<tr>
<td>d-Limonene</td>
<td>5989-27-5</td>
<td>227-813-5</td>
<td>&lt; 10</td>
<td>Flam Liq 4 H227</td>
</tr>
</tbody>
</table>

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, CO₂ 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 (eg. 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:

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Limit</th>
<th>Standard</th>
<th>Source/Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated light</td>
<td>100 ppm</td>
<td>ACGIH TWA</td>
<td>United States</td>
</tr>
<tr>
<td>Petroleum distillates</td>
<td>500 ppm</td>
<td>OSHA TWA</td>
<td>United States</td>
</tr>
<tr>
<td>Petroleum distillates, hydrotreated light</td>
<td>1200 mg/m³</td>
<td>RCP* TWA</td>
<td>ACGIH, Manufacturer</td>
</tr>
<tr>
<td>d-Limonene</td>
<td>110 mg/m³</td>
<td>DFG** OEL</td>
<td>Germany</td>
</tr>
</tbody>
</table>

*reciprocal calculation procedure for total hydrocarbons

**deutsche forschungsgemeinschaft, German Research Foundation

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)

- **Appearance:** Clear, colorless liquid with a very light citrus scent.
- **Odor threshold:** Not available
- **pH:** Does not apply
- **Freezing point:** \(<-58°F \ (-50°C)\)
- **Boiling point:** 365°F (185°C) Initial
- **Flash point:** \(>140°F \ (>60.5°C)\), Closed Cup (PMCC)
- **Evaporation rate:** \(<0.1 \text{ (n-butyl acetate = 1)}\)
- **Flammability (solid, gas):** Not applicable to liquids
- **Upper/lower flammability or explosive limits:** LEL = 0.7% UEL = 6.1%-7.0%
- **Vapor pressure:** \(<1 \text{ mm Hg } < 134 \text{ Pa @ 20°C}\)
- **Vapor density (Air = 1):** > 1.0
- **Specific gravity (H₂O = 1):** 0.79
- **Solubility in water:** Nil
- **Partition coefficient: n-octanol/water:** Not available
- **Auto-ignition temperature:** Not available
- **Decomposition temperature:** Not available
- **Viscosity:** Not available

#### 9.2 Other Information

- **Volatiles (Weight %):** 100%
- **VOC Content:** 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$_{50}$ (oral rat) >5000 mg/kg
- LD$_{50}$ (dermal rabbit) >2000 mg/kg
- LC$_{50}$ (inhl rat) >4.3mg/L, 4 hours
- d-Limonene:
  - LD$_{50}$ (oral rat) >5000 mg/kg
  - LD$_{50}$ (dermal rabbit) 5000 mg/kg
  - RD$_{50}$ 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:
- Ecotoxicity: No information available.
- Aquatic Toxicity: No information available.

12.2 Persistence and degradability: Expected to be biodegradable.
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.

<table>
<thead>
<tr>
<th>Hazard Categories for SARA Section 311/312 Reporting</th>
<th>Acute</th>
<th>Chronic</th>
<th>Fire</th>
<th>Pressure</th>
<th>Reactive</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERCLA/SARA Sec 302</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SARA Sec. 313 Components</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Components</td>
<td>Hazardous Substance RQ</td>
<td>EHS TPQ</td>
<td>Toxic Release</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Components are not affected by these Superfund regulations.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NFPA Ratings:**
- 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.

**European Union**
All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

**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.

**WHMIS Classification:** B3

**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
Product Name: Type HP™ Cleaner/Degreaser, Saturated Towelette Package  Revision Date: January 2, 2015

Abbreviations and acronyms:
OSHA = Occupational Safety and Health Administration
CLP = Classification, Labeling and Packaging Regulation
STOT = Specific Target Organ Toxicity
LD₅₀ = 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

Hazard Statements:
H227  Combustible liquid
H317  May cause an allergic skin reaction.

Revision Date: January 2, 2015
Revision Number: 5
Supersedes: September 23, 2014
Other: Not Applicable
Indication of Changes: Section 1, 2, 3, 8, 15, 16 updated. Hazard and precautionary codes adjusted, additional information on exposure limits. Addition of acronyms and other formatting changes. Updated in accordance with the provisions of OSHA 1910.1200 App D and REACH Annex II (EU No 453/2010). (GHS format)

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