SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER
Product Name: GacoFireStop2 - POLYOL COMPONENT B
Product Code: F5001, F5001-55

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE
Product Use: Spray Foam Insulation

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET
Name/Address: Gaco Western LLC
1245 Chapman Dr.
Waukesha, WI, 53186-5942
USA
Telephone Number: 800-331-0196 / International: 001-800-331-0196
Email: sds@gaco.com
Website: www.gaco.com

1.4 EMERGENCY TELEPHONE NUMBER
For Chemical Emergency
Spill, Leak, Fire, Exposure, or Incident
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL
Hazard class:

<table>
<thead>
<tr>
<th>HAZARD CLASSIFICATION</th>
<th>CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>2</td>
</tr>
<tr>
<td>Eye Damage/Irritation</td>
<td>1</td>
</tr>
</tbody>
</table>

2.2 LABEL ELEMENTS
Hazard Pictogram: GHS05
Signal Word: Danger

Hazard Statement: Causes skin irritation
Causes serious eye damage

Prevention: Wash thoroughly after handling.
Wear protective eye protection/face protection.

Response: If on skin: Wash with plenty of water.
Specific treatment (see Section 8 on this label).
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

Storage: Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 ADDITIONAL INFORMATION
Main Symptoms: Skin irritation. May cause redness and pain. Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Hazards not otherwise specified: None Known

63.84 % of the mixture consists of ingredient(s) of unknown acute toxicity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES
Comments:

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS No.</th>
<th>Weight %*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol, propylene oxide, ethylene oxide polymer</td>
<td>9082-00-2</td>
<td>7.13%</td>
</tr>
<tr>
<td>2-[(2-[2-(dimethylamino)ethoxy]ethyl)methylamino]ethanol</td>
<td>83016-70-0</td>
<td>1.5%</td>
</tr>
<tr>
<td>Bis(2-chloropropyl)1-chloro-2-propyl phosphate</td>
<td>76649-15-5</td>
<td>0.5-1.5%</td>
</tr>
<tr>
<td>Dimethylenoethoxyethanol</td>
<td>1704-62-7</td>
<td>0.1-1%</td>
</tr>
<tr>
<td>N,N,N',N'-tetramethyl-2,2'-oxybis(ethylene)</td>
<td>3033-62-3</td>
<td>0.1-1%</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: FIRST-AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURES
General Information: Ensure that medical personnel are aware of the materials(s) involved, and take precautions to protect themselves.

Inhalation: Move to fresh air. Call a physician if symptoms occur.

Skin: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash
before reuse.

Eye: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Skin irritation. May cause redness and pain. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to Physicians: Treat symptomatically.
Specific Treatments: In case of accident or if you feel unwell, seek medical advice (show the label or SDS where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

General Hazards: No unusual fire or explosion hazard.
Suitable Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2)
Unsuitable Extinguishing Media: Do not use water jet as an extinguisher as this will spread the fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Specific hazards: During fire, gases hazardous to health may be formed.
Products of Combustion: May include, and are not limited to: oxides of carbon.

5.3 Special protective equipment and precautions for fire-fighters (PPE)

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire-fighting procedures: Keep upwind of fire. Move containers from fire area if you can do it without risk.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up: Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Following product recovery, flush area with water. For
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use.

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

Safe handling advice: Observe good industrial hygiene practices.

General hygiene advice: Ensure that medical personnel are aware of the materials(s) involved, and take precautions to protect themselves.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

- **Storage:** Store away from incompatible materials.
- **Specific use:** Spray Foam Insulation
- **Technical measures:** No specific recommendations.
- **Incompatible materials:** None known
- **Safe storage:** Store away from incompatible materials.
- **Safe packaging material:** No specific recommendations.
- **Precautions:** Use personal protective recommended in Section 8 of the SDS.
- **Safe handling advice:** Observe good industrial hygiene practices.
- **Suitable storage conditions:** Store away from incompatible materials.
- **Handling-technical measures:** No specific recommendations.
- **Local and general ventilation:** Provide adequate ventilation.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS

Control parameters: Follow standard monitoring procedures.

- **Exposure limits:** None

#### 8.2 EXPOSURE CONTROLS

**Engineering measures to reduce exposure:**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### 8.3 INDIVIDUAL PROTECTIVE MEASURES

- **General:** Use personal protective equipment as required.
- **Eye protection:** Wear safety glasses with side shields (or goggles).
- **Hand protection:** For prolonged or repeated skin contact, use suitable protective gloves.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous Orange Liquid
Color: Orange
Form: Liquid
Odor: mild amine-like
Physical State: Liquid
pH (at 20⁰C): 10.7
Melting Point/Freezing Point: Not available
Initial Boiling Point and Boiling Range: Not available
Flash Point: Not available
Evaporation Rate: Not available
Flammability (solid, gaseous): Not Flammable
Lower Flammability/Explosive Limit: Not available
Upper Flammability/Explosive Limit: Not available
Evaporation rate: Not available
Vapor Pressure (mm Hg @38⁰C): Not available
Vapor Density: Not available
Density (lb/gal): 9.99
Relative Density/Specific Gravity: 1.2
Solubility in water/miscibility: Soluble
Partition coefficient: n-octanol/water: Not available
Auto-ignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity (at 20⁰C) g/L: 4500
Oxidizing Properties: Not available
Explosive Properties: Not available
VOC: <15 g/L (<0.125 lb/gal)
Solvent content - Organic: Not available
Solvent content - Water: Not available
Solvent content - Solids: Not available
Other information: Not available
Incompatibilities: acids, oxidizing agents

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY:
The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2 CHEMICAL STABILITY
Chemical stability: Material is stable under normal conditions.
Materials to avoid: The product is stable and non-reactive under normal conditions of use, storage and transport.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS
Hazardous Reactions: No dangerous reaction known under conditions of normal use.

10.4 CONDITIONS TO AVOID: Contact with incompatible materials.

10.5 INCOMPATIBLE MATERIALS: Strong oxidizing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous decomposition products: No hazardous decomposition products are known.
Hazardous Polymerization: Does not occur.
Other Information: Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Toxicity: Neither inhalation nor skin contact contribute to acute toxicity of the substance or mixture. However, may cause discomfort if swallowed.

Likely Routes of Exposure: Skin contact. Eye contact.
Eye: Causes serious eye damage.
Skin: Causes skin irritation.
Ingestion: Not an expected route of exposure. Expected to be a low ingestion hazard.
Inhalation: Not an expected route of exposure. No adverse effects due to inhalation are expected.

LD50/LC50 values relevant to this classification:
None

Calculated overall chemical acute toxicity values for this formulation:

<table>
<thead>
<tr>
<th>Calculated overall Chemical Acute Toxicity Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 (inhalation)</td>
</tr>
<tr>
<td>&gt;5 mg/kg (dust and mist)</td>
</tr>
</tbody>
</table>

11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

Skin Corrosion/Irritation: Causes skin irritation.
Serious Eye Damage/Irritation: Causes serious eye damage.
Respiratory Sensitization: Based on available data, this product is not expected to cause respiratory sensitization.
Skin Sensitization: Based on available data, this product is not expected to cause skin sensitization.
Symptoms and Target Organs: Skin irritation. May cause redness and pain. Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Chronic Health Effects: No chronic health effects known.
Carcinogenicity: This product is not classified as a carcinogen.
**Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Reproductive Toxicity:** This product is not expected to cause reproductive or developmental effects.

**Specific Target Organ Toxicity (STOT):**
- **Single Exposure:** Not classified as an STOT - Single Exposure.
- **Repeated Exposure:** Not classified as an STOT - Repeated Exposure.

**Aspiration Toxicity:** Based on available data, this product is not expected to cause aspiration toxicity.

**Other Information:** Not available.

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### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 ECOTOXICITY

**Acute/Chronic Toxicity:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Aquatic toxicity:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Environmental effects:** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### 12.2 PERSISTENCE AND DEGRADABILITY

**Persistence/biodegradability:** The product contains substances which are not expected to be readily biodegradable.

**Result of PBT and vPvB assessment:**

#### 12.3 BIOACCUMULATIVE POTENTIAL

**Bioaccumulation:** No data available.

#### 12.4 MOBILITY

- **Mobility:** No data available.
- **Mobility in soil:** No data available.
- **Mobility in non-soil:** No data available.

#### 12.5 OTHER ADVERSE EFFECTS

- **Ozone layer:** No data available.

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### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 WASTE TREATMENT METHODS

- **Disposal Method:** This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

- **Contaminated packaging:** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of contents and container in accordance with all local, regional, national and international regulations.

- **EU Codes:** The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

- **Residual Waste:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

- **Disposal instructions:** Collect and reclaim or dispose in sealed containers at licensed waste...
disposal. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Waste Codes:
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Other disposal recommendations: None

SECTION 14: TRANSPORT INFORMATION

DOT Non-Bulk
Not classified as Dangerous Goods for Transport

DOT Bulk
Not classified as Dangerous Goods for Transport

IMDG
Not classified as Dangerous Goods for Transport

ICAO/IATA
Not classified as Dangerous Goods for Transport

Reportable quantity:
This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE CHEMICAL

US Federal Regulations:

U.S. OSHA (Occupational Safety and Health Administration) Specifically Regulated Substances (29 CFR 1910.1001-1050)
No components of this product are present at concentration greater than or equal to 0.1% and are identified as a carcinogen or potential carcinogen by OSHA.

SARA/CERCLA reporting requirements:
No components of this product are found at concentrations greater than or equal to 0.1% and are subject to the SARA/CERCLA reporting requirements.

State Right-to-Know Regulations
No components of this product are found at concentrations greater than or equal to 0.1% and are subject to state Right-to-Know reporting requirements.

Global Inventories:

<table>
<thead>
<tr>
<th>Notification status:</th>
</tr>
</thead>
<tbody>
<tr>
<td>US - TSCA</td>
</tr>
<tr>
<td>All substances are listed</td>
</tr>
<tr>
<td>Canada - DSL</td>
</tr>
<tr>
<td>All substances are listed</td>
</tr>
<tr>
<td>Canada - NDSL</td>
</tr>
<tr>
<td>No substances are listed</td>
</tr>
</tbody>
</table>
EU - REACH Status:

A registration number is not available for substances in this mixture as the substances are exempted from registration, the annual tonnage does not require a registration or the registration is envisioned for a later registration deadline.

CANADA – WHMIS (Workplace Hazardous Materials Information System) Classification:
D1B, D2B

MEXICO:
Hazard Classification: 3-1-0
Carcinogen Status: No data available.

SECTION 16: OTHER INFORMATION

HMIS (Hazardous Materials Identification System) Rating:

Health: 3
Flammability: 1
Physical: 0

NFPA 704 (National Fire Protection Association) Rating:

Health 3
Fire 1
Reactivity 0

Legend:
DOT US Department of Transportation
IATA International Air Transport Association
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
ACGIH American Conference of Governmental Industrial Hygienists
NTP National Toxicology Program
IARC International Agency for Research on Cancer
PPE Personal Protective Equipment
RCRA Resource Conservation and Recovery Act
**SAFETY DATA SHEET**

**Trade Name:** F5001 - GacoFireStop2

**Date of Preparation:** October 15, 2015

**Version:** 1.0

**Revision Date:** October 15, 2015

**Disclaimer:** We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of this information for the user’s own particular use.

**Prepared by:** Gaco Western LLC

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End of Safety Data Sheet