

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

Product Name: GacoProFill - POLYOL COMPONENT B
Product Code: FR6500R, FR6500R-5, FR6500R-55, FR6500R-480

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Product Use: Spray Foam Insulation
 Use this product in accordance with all local, regional, national and international regulations.

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:

HAZARD CLASSIFICATION	CATEGORY
Skin Corrosion/Irritation	2
Eye Damage/Irritation	1

2.2 LABEL ELEMENTS

Hazard Pictogram: GHS05



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

Hazards not otherwise specified: Harmful to aquatic life with long lasting effects.

14 % of the mixture consists of ingredient(s) of unknown acute toxicity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

Material	CAS No.	Weight %*
beta-D-fructofuranosyl alpha-D-glucopyranoside	57-50-1	10-30%
Nonylphenol polyethylene glycol ether	127087-87-0	5-10%
Dimethylaminoethoxyethanol	1704-62-7	1-5%
2-[(2-[2-(dimethylamino)ethoxy]ethyl)methylamino]ethanol	83016-70-0	1-5%

*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. Take off contaminated clothing and wash before reuse. If skin irritation occurs, get medical advice/attention.

Eye: Immediately flush eyes with plenty of water for at least 15 minutes.

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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

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

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 waste disposal, see Section 13 of the SDS.
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material,

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	where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Prevent product from entering drains.
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 release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases.

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.
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Exposure limits:**beta-D-fructofuranosyl alpha-D-glucopyranoside**

OSHA:
PEL-TWA mg/m ³ : 5
Notes: RESPIRABLE FRACTION, 15 mg/m ³ TOTAL DUST
NIOSH:
REL-TWA mg/m ³ : 5
Notes: RESPIRABLE FRACTION, 10 mg/m ³ TOTAL DUST

Nonylphenol polyethylene glycol ether

OSHA: None
NIOSH: None
AIHA WEEL TWA 10 mg/m ³

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.

8.3 INDIVIDUAL PROTECTIVE MEASURES

General: Use personal protective equipment as required.
Eye protection: Wear safety glasses with side shields (or goggles) and a face shield.
Hand protection: Wear appropriate chemical resistant gloves.
Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
Skin and body protection: Wear suitable protective clothing.
Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Control parameters: Follow standard monitoring procedures.
Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls: Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous brown Liquid
Color: Brown
Form: Liquid
Odor: mild amine-like
Odor Threshold: Not available
Physical State: Liquid
pH (at 20°C): 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 @38°C): Not available
Vapor Density: Not available
Density (lb/gal): 9.77
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 20°C) g/L: Not available
Oxidizing Properties: Not available
Explosive Properties: Not available
VOC: <10 g/L (<0.08 lb/gal)

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

Likely Routes of Exposure: Skin contact. Eye contact. Inhalation.

Eye: Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Skin: Causes skin irritation. May cause redness and pain.

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:

beta-D-fructofuranosyl alpha-D-glucopyranoside

Oral rat LD50 27,700 mg/kg bw

Nonylphenol polyethylene glycol ether

Oral rat LD50 2980 mg/kg

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Dermal rabbit LD50 2000-2991 mg/kg
Inhalation rat LC50 1.15 mg/l 4 hr

2-[(2-[2-(dimethylamino)ethoxy]ethyl)methylamino]ethanol

Oral rat LD50 1364 mg/kg bw
Derm rabbit LD50 5700 mg/kg bw

Calculated overall chemical acute toxicity values for this formulation:

Calculated overall Chemical Acute Toxicity Values		
LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
>5 mg/kg (dust and mist)	>2000 mg/kg	>2000 mg/kg

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

Skin Corrosion/Irritation: Causes skin irritation. May cause redness and pain.
Serious Eye Damage/Irritation: Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
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: Causes severe eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Causes skin irritation. May cause redness and pain.
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.

SECTION 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

Ecotoxicity: Harmful to aquatic life with long lasting effects.
Acute aquatic toxicity: The product is not classified as acutely environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Chronic toxicity: Harmful to aquatic life with long lasting effects.
Environmental effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

12.2 PERSISTENCE AND DEGRADABILITY

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

biodegradable.

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.

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 site. 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: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

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

The following components of this product are found at concentrations greater than or equal to 0.1%, subject to state Right-to-Know reporting requirements; or are found at any concentration and are listed under California Proposition 65.

Material	California Proposition 65	Massachusetts Right-to-Know	Minnesota Employee Right-to-Know	New Jersey Community Environmental Hazard Right-to-Know	New Jersey Right-to-Know Substance	Pennsylvania Right-to-Know	Rhode Island Right-to-Know
Ethylene Glycol	Dev	Listed	Listed	Not listed	Listed	Listed	Listed
1,4- Dioxane (trace)	Cancer	Listed	Listed	Listed	Listed	Listed	Listed
Ethylene Oxide (trace)	Cancer	Listed	Listed	Not listed	Not listed	Listed	Listed

California:

Proposition 65:



WARNING: This product can expose you to 1,4- Dioxane, and Ethylene Oxide, which are known to the State of California to cause cancer, and Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Global Inventories:

Notification status:	
US - TSCA	All substances are listed
Canada -DSL	All substances are listed
Canada - NDSL	All substances are listed
EU - EINECS	Not all substances are listed
EU - ELINCS	No substances are listed
EU - NLP	At least 1 substance is listed
Australia – AICS	All substances are listed
China - EICSC	All substances are listed
Japan - ENCS	All substances are listed
Korea - KECI	All substances are listed
Taiwan - NECI	All substances are listed
New Zealand - NZIoC	All substances are listed
Philippine - PICCS	All substances are listed

EU - REACH Status:

A registration number is not available for substances in this mixture as the substances are

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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, E



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
- CAA Clean Air Act
- SARA Superfund Amendments and Reauthorization Act
- EPCRA Emergency Planning and Community Right-to-Know Act
- WHMIS Workplace Hazardous Materials Information System
- EU European Union
- REACH Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
- CERCLA Comprehensive Environmental Response, Compensation and Liability Act
- TSCA US Toxic Substances Control Act (TSCA)
- DSL Canada Domestic Substance List (DSL)
- NDSL Canada Non-Domestic Substance List (NDSL)
- EINECS European Inventory of Existing Commercial Chemical Substances (EINECS)
- ELINCS European List of Notified Chemical Substances (ELINCS)
- NLP European list of No-longer Polymers (NLP)
- AICS Australian Inventory of Chemical Substances (AICS)
- EICSC China Existing Chemical Inventory - IECSC

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ENCS	Japanese Existing and New Chemical Substances Inventory(ENCS)
KECI	Korea Existing Chemicals Inventory(KECI)
NECI	Taiwan National Existing Chemical Inventory (NECI)
NZIoC	New Zealand Inventory of Chemicals (NZIoC)
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
HMIS	Hazardous Materials Identification System
NFPA	National Fire Protection Association (NFPA)

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Prepared by: Gaco Western LLC

End of Safety Data Sheet