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# SAFETY DATA SHEET

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## SECTION 1 – IDENTIFICATION:

**Chemical name:** UltraSeal® PF-200 / PF-600 “B” Component,  
Class 1, CCMC # 13520-L\*

**Recommended use:** B-Component for Two-Component Polyurethane Foam System

**Restrictions on use:** No further information available

**Manufacturer:** NUCO INC.  
150 Curtis Drive  
Guelph, Ontario N1K 1N5  
Tel: (519) 823-4994  
Fax: (519) 823-1099

**Emergency telephone:** Infotrac 24 Hour Emergency Tel: (800)-535-5053

**\*CCMC #13520-L:** CAN/ULC-S711.2-05, Standard for Thermal Insulation - Bead-Applied Two-Component Polyurethane Air Sealant Foam

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## SECTION 2 – HAZARDS IDENTIFICATION:

**GHS Classification:** Gases Under Pressure – Compressed Gas  
Skin Irritation – Category 2  
Eye Irritation – Category 2A

**GHS Label elements:**

**Hazard symbol(s):**



**Signal word:** Warning

**Hazard statements:** H280 Contains gas under pressure; may explode if heated.  
H315 Causes skin irritation  
H319 May cause serious eye irritation.

**Precautionary statements:**

**Prevention:** P102 Keep out of reach of children  
P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood  
P251 Pressurized container: Do not pierce or burn, even after use  
P264 Wash hands and other skin areas exposed to material thoroughly after handling  
P271 Use only outdoors or in a well-ventilated area  
P280 Wear protective gloves, protective clothing and eye protection

**Response:** P302+P352 If on skin: Wash with plenty of soap and water.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment: Seek immediate medical advice. Refer to product label and Section 4 of this SDS.  
P314 Get medical advice if you feel unwell.  
P333+P313 If skin irritation or rash occurs: Get medical attention  
P337+P313 If eye irritation persists: Get medical attention.  
P362 Take off contaminated clothing and wash before reuse.

**Storage:** P405 Store locked up.  
P410+P403 Protect from sunlight. Store in a well-ventilated place.

**Disposal:** P501 Dispose of contents/container in accordance with applicable local, regional, national and international regulations.

**Other hazards:** None known

**Supplemental information:** No further information available.

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**SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS:**

**Substance/Mixture :** Mixture

| Chemical Name                      | CAS No.       | Concentration (%) |
|------------------------------------|---------------|-------------------|
| Proprietary Polyol Blend           | Not available | 30.0 – 60.0       |
| Tris (1-Chloro-2-Propyl) Phosphate | 13674-84-5    | 15.0 – 45.0       |
| 1,1,1,2-Tetrafluoroethane          | 811-97-2      | 10.0 – 30.0       |
| Pentamethyldiethylenetriamine      | 3030-47-5     | 1.0 – 5.0         |
| Diethylene Glycol                  | 111-46-6      | 0.5 – 1.5         |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to the health or the environment and hence require reporting in this section.

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**SECTION 4 - FIRST AID MEASURES:**

**Eye contact:** Flush with copious quantities of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do so. If irritation persists, get medical attention immediately.

**Skin contact:** Flush skin with large amount of water while removing contaminated clothing. Use a rag to remove liquid from skin and remove contaminated clothing. Wash thoroughly with non-abrasive soap and water. Cured material may be physically removed by persistent washing with water and a non-abrasive soap. If irritation develops, use mild cream. If it persists, seek medical attention.

**Inhalation:** Remove to fresh air if breathing difficulty is experienced. If necessary, provide oxygen or artificial respiration by trained personnel and obtain medical attention.

**Ingestion:** Do not induce vomiting. Consult physician. Do not give anything orally to an unconscious person. Get medical advice/attention.

**Most important symptoms/effects, acute and delayed:**

**Eye:** May cause eye irritation. Symptoms may include redness, swelling, stinging and tearing. May cause temporary corneal injury.

**Skin:** May cause mild skin irritation. Symptoms may include localized redness and discomfort.

**Inhalation:** Mist or vapor may cause irritation of the nose, throat and respiratory tract. Symptoms may include sore throat, coughing, headache, nausea and shortness of breath. Inhalation of the propellant may cause headache and lethargy.

**Ingestion:** May be harmful if swallowed. May cause gastrointestinal irritation: stomach distress, nausea or vomiting.

**Chronic:** Pre-existing disorders of the skin and respiratory system may be aggravated by exposure to this product. Diethylene glycol has caused reproductive and developmental effects in some laboratory animal's tests.

**Indication of immediate medical attention and special treatment needed:** Provide general supportive measures and treat symptomatically. In case of an accident or if you feel unwell, seek medical advice immediately.

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**SECTION 5 - FIRE FIGHTING MEASURES:**

**Suitable extinguishing media:** Carbon dioxide, dry chemical, alcohol resistant foams and water spray. Water can be used to cool fire exposed containers to prevent pressure build-up and possible explosion.

**Unsuitable extinguishing media:  
Specific hazards arising  
from the chemical:**

None known.

Cans, cylinders or refillable tanks may explode due to build up of pressure when exposed to extreme heat. Highly toxic gases may be generated by thermal decomposition or combustion. Overexposure to decomposition products may be hazardous to health. Symptoms may not be immediately apparent or may be delayed.

**Special protective equipment and  
precautions for fire fighters:**

Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan.

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**SECTION 6 – ACCIDENTAL RELEASE MEASURES:**

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

Use personal protective equipment recommended in Section 8. Isolate the hazard area. Eliminate sources of ignition. Ventilate the area.

**Environment precautions:**

Discharged into the environment must be avoided. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

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

Restrict access to the area of the spill. Provide ventilation, NIOSH / MSHA approved respirator and protective clothing. Soak up material with absorbent and place in chemical waste container. Wash spill area thoroughly with soap and water. Local, state, provincial, federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup.

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**SECTION 7 – HANDLING AND STORAGE:**

**Precautions for safe handling:**

Wear respiratory protection when spraying this material. Avoid contact with skin and eyes. Wear appropriate personal protective equipment during use (see Section 8). Do not puncture or incinerate cylinders. Containers are under pressure. Exposure to high temperature can cause containers to rupture or explode. Keep containers closed when not in use.

**Conditions for safe storage,  
including any incompatibilities:**

Store under dry conditions, between 15.5°C (60°F) and 26.6°C (80°F). Keep away from sources of ignition. Do not expose to open flame or temperatures above 50°C (122°F). Storage above 32.2°C (90°F) will shorten the shelf life. Storage below 12.7°C (55°F) may affect foam quality if the chemicals are not warmed prior to use. Protect unused product from FREEZING. Keep containers upright. Keep away from children.

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**SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION:**

**Control Parameters:**

| Ingredient                | CAS No.  | OSHA-PEL | ACGIH-TLV | Other         |
|---------------------------|----------|----------|-----------|---------------|
| Diethylene Glycol         | 111-46-6 | -----    | -----     | WEEL 10 mg/kg |
| 1,1,1,2-Tetrafluoroethane | 811-97-2 | -----    | -----     | WEEL 1000 ppm |

**Engineering controls:**

If vapor levels are expected to exceed exposure guidelines, wear a NIOSH / MSHA approved, positive pressure, supplied air respirator. In indoor applications, passive ventilation (opening of doors and windows) is recommended. Local exhaust as necessary to keep exposure levels within guidelines.

**Personal protective equipment:** Safety glasses with side-protection, impermeable gloves (e.g., neoprene, nitrile, silver shield (R)), coveralls or apron are important in preventing contamination of eyes, skin and clothing. Wash thoroughly after handling. Facilities storing or utilizing this product should be equipped with an eyewash facility and a safety shower.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance:** Amber to dark brown liquid. Forms an off-white to yellowish froth when released from container.

**Odor:** Slight fluorocarbon and amine odor

**Odor threshold:** Not available

**pH:** Not available

**Melting point/Freezing Point:** Not available

**Initial boiling point and boiling range:** Propellant -26°C (-15°F); >93°C (200°F), liquid phase

**Flash point:** Estimated >200°C (392°F)

**Evaporation rate:** Not available

**Flammability:** Not applicable

**Lower flammability/Explosive limit:** Not available

**Upper flammability/Explosive limit:** Not available

**Vapor pressure in container:** Contents under pressure have a vapor pressure >50 psi (>345 kPa).

**Vapor pressure of liquid:** Liquid phase vapor pressure <1 mm Hg @40°C

**Vapor density:** Not available

**Specific gravity:** 1.2 @25°C(77°F)

**Solubility:** Water: partly soluble, does not react

**Partition coeff.: n-octanol/water:** Not available

**Auto-ignition temperature:** Not available

**Decomposition temperature:** Not available

**Viscosity:** Not available

**VOC content:** Approximate 25 g/L (calculated minus exempt compounds and water)

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**SECTION 10 – STABILITY AND REACTIVITY:**

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical stability:** Stable under normal storage conditions. See Section 7 for storage recommendations.

**Possibility of hazardous reactions:** Exposure to elevated temperatures can cause containers to rupture or explode. Containers are under pressure.

**Conditions to avoid:** Heat, incompatible materials and sources of ignition. Avoid temperatures below 16°C (60°F) or temperatures above 32°C (90°F).

**Incompatible materials:** Alcohols, strong bases, amines, metal compounds, ammonia and strong oxidizing agents.

**Hazardous decomposition products:** Carbon oxides, nitrogen oxides and traces of incompletely burned carbon products, hydrogen cyanide, hydrogen fluoride.

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**SECTION 11 - TOXICOLOGICAL INFORMATION:**

**Information on the likely routes of exposure:**

**Inhalation:** Mist or vapor may cause irritation of the nose, throat and respiratory tract.

**Ingestion:** May be harmful if swallowed.

**Skin contact:** May cause mild skin irritation.

**Eye contact:** May cause eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics:**

No information available.

**Acute toxicity:**

Expected to have low acute oral toxicity.  
Expected to have low acute inhalation toxicity.  
Expected to have low acute dermal toxicity.

|  |   |
|--|---|
| <b>Skin corrosion/irritation:</b>                          | May cause skin irritation.  |
| <b>Serious eye damage/irritation:</b>                      | May cause eye irritation.   |
| <b>Aspiration hazard:</b>                                  | No data available.  |
| <b>Specific target organ toxicity - single exposure:</b>   | No data available.  |
| <b>Specific target organ toxicity – repeated exposure:</b> | No data available.  |
| <b>Respiratory or skin sensitization:</b>                  | No data available.  |
| <b>Carcinogenicity:</b>                                    | None of the components of this product are listed as carcinogens by IARC, ACGIH, NTP or OSHA.   |
| <b>Reproductive toxicity:</b>                              | Prolonged and repeated exposure to Diethylene Glycol (DEG) is associated with kidney and to a lesser degree, liver effects. Available data indicates that DEG is negative in in-vitro genotoxicity tests. Overall, DEG is considered non-genotoxic. |
| <b>Teratogenicity:</b>                                     | No data available.  |
| <b>Germ-cell mutagenicity:</b>                             | No data available.  |

**SECTION 12 – ECOLOGICAL INFORMATION:**

|                                       |   |
|---------------------------------------|---|
| <b>Ecotoxicity:</b>                   | Not experimentally determined. However, it is expected to have low acute aquatic toxicity based on the acute aquatic toxicity of individual components and their concentration in this mixture. |
| <b>Persistence and degradability:</b> | Product is readily biodegradable.   |
| <b>Bioaccumulative potential:</b>     | Product is not expected to bioaccumulate.   |
| <b>Mobility in soil:</b>              | No data available.  |
| <b>Other adverse effects:</b>         | Do not allow material to run into surface waters, wastewater or soil. An environmental hazard can not be excluded in the event of unprofessional handling or disposal.                          |

**SECTION 13 – DISPOSAL CONSIDERATIONS:**

|                                |   |
|--------------------------------|---|
| <b>Disposal instructions:</b>  | Do not incinerate tanks. Relieve all pressure prior to disposal using the precautions provided in Section 8. Remove the hoses and with tank inverted, slowly open tank valve, point tank away from face and allow pressure to completely vent. Allow dispensed product to fully cure before disposing. Never discard in liquid state. Dispose of contents/container in accordance with local, regional, national and international regulations. |
| <b>Waste from residues:</b>    | Dispose of in accordance with local regulations.  |
| <b>Contaminated packaging:</b> | Do not puncture or incinerate containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.  |

**SECTION 14 - TRANSPORT INFORMATION:**

**Shipping Information:**

|               | <b>Containers Less Than 1 liter</b>  | <b>Containers Greater Than 1 liter</b>   |
|---------------|--|--|
| <b>Ground</b> | Consumer Commodity ORM-D   | UN1956 Compressed Gas N.O.S. (Fluorinated hydrocarbon, nitrogen) 2.2 (Non-Flammable Gas Label)   |
| <b>Air</b>    | UN1950 Aerosols, Flammable 2.1 (Flammable Gas Label)<br>LIMITED QUANTITY<br>Packing Instructions (Cargo & Passenger) 203 | UN1956 Compressed Gas N.O.S. (Fluorinated hydrocarbon, nitrogen) 2.2 (Non-Flammable Gas Label)<br>Packing Instructions (Cargo & Passenger) 200 |
| <b>Water</b>  | UN1950 Aerosols, Flammable 2.1 (Flammable Gas Label)<br>LIMITED QUANTITY   | UN1956 Compressed Gas N.O.S. (Fluorinated hydrocarbon, nitrogen) 2.2 (Non-Flammable Gas Label)   |

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**SECTION 15 - REGULATORY INFORMATION:****U.S. Federal Regulations:****OSHA Hazard Communication Standard:**

This material is classified as hazardous in accordance with OSHA 29 CFR 1910 – 1200.

**SARA 302/304 Extremely Hazardous Substances:**

No components of this product are subject to the reporting requirements of these sections of Title III of SARA.

**SARA 302/304 Emergency Planning & Notification:**

No components of this product are subject to the reporting requirements of these sections of Title III of SARA.

**SARA 311/312 Hazards:** Acute Health Hazard, Sudden Release of Pressure Hazard

**SARA 313:**

No components of the product are subject to the reporting levels established by Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986.

**Comprehensive Response Compensation and Liability Act (CERCLA):**

None of the chemicals in this product are contained in levels that exceed the threshold (de minimis) reporting levels established by CERCLA.

**Clean Air Act (CAA):**

This product does not have any components listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112(b). This product does not contain any Class 1 or Class 2 Ozone depletors.

**Clean Water Act (CWA):**

This product does not have any components listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**U.S. State Regulations:**

**California Proposition 65:** This product contains trace amount of substances known to the State of California to cause cancer or other reproductive harm.

**Other U.S. State Inventories:**

Diethylene Glycol (CAS# 111-46-6) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: MN, PA.

1,1,1,2-Tetrafluoroethane (CAS #811-97-2) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: ME, WI.

**The ingredients of this product are reported in the following inventories:**

**TSCA:** All components of this product are listed or exempted from listing on the TSCA inventory of Chemical Substances. This product is not subject to TSCA 12(b) Export Notification.

**DSL:** All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempted from listing on the Canadian Domestic Substances List (DSL).

**Canadian National Pollutant Release Inventory (NPRI):** None of the ingredients are listed on the NPRI.

**NFPA Profile:** Health 2, Flammability 1, Reactivity 1

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**SECTION 16 - OTHER INFORMATION:**

**Prepared by:** Technical Services Department  
**Revision date:** April 20, 2015

The information herein is given in good faith, but no warranty, express or implied, is made. Product users should make independent judgements of the suitability of this information to ensure proper use and to protect the health and safety of employees.

**Form:** SDSULTRASEALPF-200/PF-600" B" COMPONENT **Rev.:** 8 **Date:** 04/15