



# **ULTRASEAL® PF-600**

# **SECTION 1. IDENTIFICATION**

Product Identifier ULTRASEAL ® PF-600

Other Means of

"B" Component

Identification

Other Identification Class 1, CCMC# 13529-L Recommended Use Polyurethane Foam System.

Restrictions on Use None known.

Manufacturer NUCO Inc., 150 Curtis Dr., Guelph, Ontario, N1K 1N5, Canada, (519) 823-4994,

www.sealantcentre.com

Emergency Phone No. Infotrac 24 Hour Emergency Tel, (800) 535-5053

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# **SECTION 2. HAZARD IDENTIFICATION**

### Classification

Gas under pressure - Compressed gas; Skin irritation - Category 2; Eye irritation - Category 2A

#### **Label Elements**



Signal Word: Warning

Hazard Statement(s):

Contains gas under pressure; may explode if heated.

Causes skin and eye irritation.

### Precautionary Statement(s):

### Prevention:

Wash hands and skin thoroughly after handling.

Wear eye protection/face protection.

Wear protective gloves.

Obtain special instructions before use.

Do not pierce or burn, even after use.

#### Response:

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IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice or attention. Take off contaminated clothing and wash it before reuse.

### Storage:

Protect from sunlight. Store in a well-ventilated place.

#### Disposal:

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

#### Other Hazards

None known.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

### Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Propiretary Polyol Blend	Proprietary	30.0-60.0		
Phosphoric acid, tris(2-chloro-1-methylethyl) ester	13674-84-5	15.0-45.0		
1,1,1,2-Tetrafluoroethane	811-97-2	10.0-30.0		
Diethylenetriamine, 1,1,4,7, 7-pentamethyl-	3030-47-5	1.0-5.0		
Diethylene glycol	111-46-6	0.5-1.5		

#### **Notes**

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.

### **SECTION 4. FIRST-AID MEASURES**

#### **First-aid Measures**

#### Inhalation

Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

#### **Skin Contact**

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. If skin irritation occurs, get medical advice or attention.

### **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

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#### Ingestion

Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Get medical advice or attention if you feel unwell or are concerned.

#### **First-aid Comments**

If exposed or concerned, get medical advice or attention.

# Most Important Symptoms and Effects, Acute and Delayed

If inhaled: can irritate the nose and throat. Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest.

If on skin: may cause mild irritation.

If swallowed: symptoms may include nausea, vomiting, stomach cramps and diarrhea.

If in eyes: may cause moderate to severe irritation. Symptoms include sore, red eyes, and tearing.

# **Immediate Medical Attention and Special Treatment**

**Target Organs** 

Skin, eyes.

**Special Instructions** 

Not applicable.

**Medical Conditions Aggravated by Exposure** 

None known.

### **SECTION 5. FIRE-FIGHTING MEASURES**

## **Extinguishing Media**

# Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

### **Unsuitable Extinguishing Media**

None known.

# **Specific Hazards Arising from the Product**

Contains gas under pressure; may explode if heated. Heating increases the release of toxic vapour.

In a fire, the following hazardous materials may be generated:

carbon oxides; nitrous gases; very toxic polycyclic aromatic hydrocarbons.

# **Special Protective Equipment and Precautions for Fire-fighters**

No special precautions are necessary.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Remove or isolate incompatible materials as well as other hazardous materials. Increase ventilation to area or move leaking container to a well-ventilated and secure area.

### **Environmental Precautions**

It is good practice to prevent releases into the environment. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

# Methods and Materials for Containment and Cleaning Up

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up. Stop or reduce leak if safe to do so. Ventilate the area to prevent the gas from accumulating, especially in confined spaces. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product.

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#### Other Information

Report spills to local health, safety and environmental authorities, as required. Contact supplier, local fire and emergency services for help.

# **SECTION 7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Do not get in eyes, on skin or on clothing. Only use where there is adequate ventilation. Prevent uncontrolled release of product.

#### **Conditions for Safe Storage**

Store in an area that is: cool, temperature-controlled, dry, well-ventilated, out of direct sunlight and away from heat and ignition sources, separate from incompatible materials (see Section 10: Stability and Reactivity).

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

	ACGII	ACGIH TLV®		OSHA PEL		AIHA WEEL	
Chemical Name	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA	
Phosphoric acid, tris(2-chloro-1-methylethyl) ester	Not established						
Diethylene glycol	Not established	Not established	Not established	Not established	10 mg/m3	Not established	
1,1,1,2-Tetrafluoroethane	Not established	Not established	Not established	Not established	1000 ppm	Not established	
Diethylenetriamine, 1,1,4,7, 7-pentamethyl-	Not established						

### **Appropriate Engineering Controls**

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

#### **Individual Protection Measures**

### **Eye/Face Protection**

Wear chemical safety goggles.

### **Skin Protection**

Wear chemical protective clothing e.g. gloves, aprons, boots.

Suitable materials are: nitrile rubber, neoprene rubber, Silver Shield®.

#### **Respiratory Protection**

Wear a NIOSH approved particulate respirator equipped with an N95, R95, or P95 filter.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

# **Basic Physical and Chemical Properties**

Appearance Dark amber oily liquid. Turns milky yellow on exposure to air.

**Odour** Fishy

Odour Threshold Not available pH Not available

Melting Point/Freezing Point Not available (melting); Not available (freezing)

Initial Boiling Point/Range -26 °C (1,1,1,2-Tetrafluoroethane)

Flash Point > 200 °C (estimated)

Evaporation Rate Not available Flammability (solid, gas) Not applicable

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**Upper/Lower Flammability or** 

**Explosive Limit** 

Not available (upper); Not available (lower)

Vapour Pressure > 345 kPa Vapour Density (air = 1) Not available

Relative Density (water = 1) 1.20 at 25  $^{\circ}$ C (77  $^{\circ}$ F)

**Solubility** Slightly soluble in water; Not available (in other liquids)

Partition Coefficient, Not available

n-Octanol/Water (Log Kow)

Auto-ignition TemperatureNot availableDecomposition TemperatureNot available

Viscosity Not available (kinematic); Not available (dynamic)

Other Information

Physical State Liquid

Volatile Organic Content 25 g/L (calculated minus exempt compounds and water)

### **SECTION 10. STABILITY AND REACTIVITY**

# Reactivity

Not reactive under normal conditions of use.

# **Chemical Stability**

Normally stable.

# Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

#### **Conditions to Avoid**

High temperatures. Incompatible materials. Temperatures below 16 °C and above 32 °C

### **Incompatible Materials**

Reacts violently with: alcohols (e.g. ethanol), strong bases (e.g. sodium hydroxide), amines (e.g. triethylamine), metals (e.g. aluminum), ammonia, strong oxidizing agents (e.g. perchloric acid), water.

Not corrosive to metals.

# **Hazardous Decomposition Products**

Very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides; extremely hazardous hydrogen cyanide; corrosive hydrogen fluoride.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

Information presented below is for the entire product, unless otherwise specified.

### **Likely Routes of Exposure**

Inhalation.

Skin contact.

Skin absorption.

Eye contact.

Ingestion.

#### **Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Phosphoric acid, tris(2-chloro-1-methylethyl) ester		630-2000 mg/kg (rat)	> 5000 mg/kg (rabbit)
Diethylene glycol	> 4600 mg/m3 (rat) (4-hour exposure)	13311 mg/kg (rat)	13300 mg/kg (rabbit)

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1,1,1,2-Tetrafluoroethane	500000 ppm (rat) (4-hour	
	exposure)	

### Skin Corrosion/Irritation

May cause mild irritation based on information for closely related chemicals.

### Serious Eye Damage/Irritation

May cause serious eye irritation based on information for closely related materials.

# STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May cause nose and throat irritation.

### **Skin Absorption**

No information was located.

# Ingestion

No information was located.

# **Aspiration Hazard**

No information was located.

# STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

# Respiratory and/or Skin Sensitization

No information was located.

# Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Phosphoric acid, tris(2-chloro-1-methylethyl) ester	Not Listed	Not designated	Not Listed	Not Listed
Diethylene glycol	Not Listed	Not designated	Not Listed	Not Listed
1,1,1,2-Tetrafluoroethane	Not Listed	Not designated	Not Listed	Not Listed
Diethylenetriamine, 1,1,4,7, 7-pentamethyl-	Not Listed	Not designated	Not Listed	Not Listed

Not known to cause cancer.

# **Reproductive Toxicity**

### **Development of Offspring**

No information was located.

#### **Sexual Function and Fertility**

No information was located.

### Effects on or via Lactation

No information was located.

### **Germ Cell Mutagenicity**

No information was located.

#### **Interactive Effects**

No information was located.

# **SECTION 12. ECOLOGICAL INFORMATION**

Environmental information was not located.

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### Persistence and Degradability

No information was located.

#### **Bioaccumulative Potential**

No information was located.

### **Mobility in Soil**

No information was located.

#### Other Adverse Effects

There is no information available.

# **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations. Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water. Empty containers retain product residue. Follow label warnings even if container appears to be empty.

### SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1956	Compressed Gas (Fluorinated hydrocarbon, Nitrogen)	2.2	III
US DOT	1956	Compressed Gas (Fluorinated hydrocarbon, Nitrogen)	2.2	III
IATA (Air)	1956	Compressed Gas (Fluorinated hydrocarbon, Nitrogen)	2.2	III
IMO (Marine)	1956	Compressed Gas (Fluorinated hydrocarbon, Nitrogen)	2.2	III

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

# **SECTION 15. REGULATORY INFORMATION**

#### Safety, Health and Environmental Regulations

None known.

#### Canada

### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

### **USA**

### **Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

# **Additional USA Regulatory Lists**

California Proposition 65:

This product contains trace amounts of components known to the State of California to cause cancer, birth defects, or other reproductive harm.

#### CERCLA:

None of the chemicals in this product are contained in levels that exceed the threshold reporting levels established

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by CERCLA.

Clean Air Act (CAA):

This product does not contain any substances listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112(b).

This product does not contain any Class 1 and Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

US State Inventories:

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.

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

SARA Title III - Section 302: Not applicable.

SARA Title III - Section 311/312:

Acute Health Hazard

Sudden Release of Pressure Hazard.

SARA Title III - Section 313: Not applicable.

# **SECTION 16. OTHER INFORMATION**

NFPA Rating Health - 2 Flammability - 1 Instability - 1

SDS Prepared By Technical Services Department

Phone No. (519) 823-4994

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**References** CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

HSDB® database. US National Library of Medicine. Available from Canadian Centre for

Occupational Health and Safety (CCOHS).

NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault

Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and

Safety (CCOHS).

**Disclaimer** 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.

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