



UITRASEAL ® PF-100

SECTION 1. IDENTIFICATION

Product Identifier	UITRASEAL ® PF-100
Other Means of Identification	Polyurethane Tank Foam
Recommended Use	Polyurethane Foam Sealant.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	NUCO Inc., 150 Curtis Dr., Guelph, Ontario, N1K 1N5, Canada, (519) 823-4994, www.sealantcentre.com
Supplier Identifier	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
Date of Preparation	September 19, 2018

SECTION 2. HAZARD IDENTIFICATION

Classification

Gas under pressure - Compressed gas; Acute toxicity (Inhalation) - Category 4; Skin irritation - Category 2; Eye irritation - Category 2A; Respiratory sensitization - Category 1; Skin sensitization - Category 1; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 2; Aquatic hazard (Chronic) - Category 4

Label Elements



Signal Word:

Danger

Hazard Statement(s):

- Pressurized container: may burst if heated.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause respiratory irritation.
- Suspected of causing cancer.
- May cause damage to organs through prolonged or repeated exposure.
- May cause long lasting harmful effects to aquatic life.

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Precautionary Statement(s):

Prevention:

Avoid breathing dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Wear eye protection/face protection.

Wear protective gloves.

Wash hands and skin thoroughly after handling.

Avoid release to the environment.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Continue rinsing.

Storage:

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

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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
Proprietary Polyol Blend	Not Available	40.0-70.0		
Alkanes, C18-20 (35-50%)	63449-39-8	20.0-30.0		
1,1,1,2-Tetrafluoroethane	811-97-2	10.0-30.0	134a	
Polymethylene polyphenyl isocyanate	9016-87-9	1.0-5.0	Diphenylmethane diisocyanate, isomers and homologues	
4,4'-Methylenediphenyl diisocyanate	101-68-8	1.0-5.0		

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. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation or a rash occurs, get medical advice or attention.

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Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor.

Ingestion

Do not induce vomiting. Immediately call a Poison Centre or doctor.

First-aid Comments

If exposed or concerned, get medical advice or attention.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled and/or on skin: in sensitized people, contact with a very small amount of product can cause an allergic reaction. Symptoms include redness, rash, itching and swelling. This reaction can spread from the hands or arms to the face and body. Repeated exposure will make the reaction worse. Respiratory sensitizer. May cause asthma or an asthma-like reaction in some people.

Immediate Medical Attention and Special Treatment

Target Organs

Skin, respiratory system.

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.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; toxic halogenated compounds; extremely hazardous hydrogen cyanide; corrosive, oxidizing nitrogen oxides; corrosive hydrogen chloride.

Special Protective Equipment and Precautions for Fire-fighters

Fight fire from a safe distance or a protected location. Use water spray to dilute spills to non-flammable mixtures. Use water spray to flush spills away from ignition sources.

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

Increase ventilation to area or move leaking container to a well-ventilated and secure area. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

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Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe in this product. Prevent all skin contact. Do not get in eyes, on skin or on clothing. Do not swallow. Only use where there is adequate ventilation. Avoid release to the environment. Do NOT eat, drink or store food in work areas.

Conditions for Safe Storage

Store in an area that is: cool, temperature-controlled, dry, well-ventilated. Protect from sunlight.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Polymethylene polyphenyl isocyanate	Not established	0.005 ppm	Not established	0.02 ppm	Not established	Not established
4,4'-Methylenediphenyl diisocyanate	0.005 ppm	0.005 ppm	Not established	0.02 ppm	Not established	Not established
1,1,1,2-Tetrafluoroethane	Not established	Not established	Not established	Not established	1000 ppm	Not established
Alkanes, C18-20 (35-50%)	Not established	Not established	Not established	Not established	Not established	Not established

Appropriate Engineering Controls

Exhaust directly to the outside, taking any necessary precautions for environmental protection.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

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

Respiratory Protection

Not usually required when working with small quantities.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Light amber viscous liquid. Turns milky yellow on exposure to moisture.
Odour	Musty
Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)
Initial Boiling Point/Range	-26 °C (1,1,1,2-Tetrafluoroethane)
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	345 kPa

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Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.1 at 25 °C (77 °F)
Solubility	Insoluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not applicable
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Volatile Organic Content	0 g/L (Calculated less water and exempt solvents)

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Reacts in the presence of oxidizing agents. May catch fire.

Conditions to Avoid

Heat. High temperatures. Freezing. Incompatible materials. Temperatures below 4 °C and above 38 °C

Incompatible Materials

Reacts violently with: strong oxidizing agents (e.g. perchloric acid).

Not corrosive to metals.

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; toxic halogenated compounds; corrosive hydrogen chloride; extremely hazardous hydrogen cyanide; corrosive phosphorous oxides; corrosive, oxidizing nitrogen oxides.

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)
Polymethylene polyphenyl isocyanate	11 mg/L	> 10000 mg/kg (rat)	> 10000 mg/kg (rabbit)
4,4'-Methylenediphenyl diisocyanate	490 mg/m ³ (rat) (4-hour exposure)	> 2000 mg/kg (rat)	
1,1,1,2-Tetrafluoroethane	500000 ppm (rat) (4-hour exposure)		

Skin Corrosion/Irritation

Human experience and animal tests show moderate or severe irritation.

Serious Eye Damage/Irritation

Human experience and animal tests show serious eye damage.

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STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May be harmful based on human experience and animal tests.

Skin Absorption

May be harmful based on human experience and animal tests.

Ingestion

Harmful based on human experience and animal tests.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause irritation of the respiratory system. Respiratory tract injury has been observed.

Respiratory and/or Skin Sensitization

Respiratory sensitizer. Human experience shows severe asthma or asthma-like symptoms (respiratory sensitization) in a substantial proportion of people exposed at work. Skin sensitizer. Human experience shows allergic skin reactions (skin sensitization) in a substantial proportion of people exposed at work.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Polymethylene polyphenyl isocyanate	Group 3	Not designated	Not Listed	Not Listed
4,4'-Methylenediphenyl diisocyanate	Group 3	Not designated	Not Listed	Not Listed
1,1,1,2-Tetrafluoroethane	Not Listed	Not designated	Not Listed	Not Listed
Alkanes, C18-20 (35-50%)	Group 2B	Not designated	Reasonably anticipated	Not Listed

Reasonably anticipated human carcinogen. (Polymethylene polyphenyl isocyanate)

Key to Abbreviations

IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans.

Group 2B = Possibly carcinogenic to humans.

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.

Persistence and Degradability

Predicted not to degrade rapidly based on quantitative structure-activity relationships.

Exposure to water forms mostly insoluble polyureas.

Bioaccumulative Potential

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No information was located.

Mobility in Soil

If released into the environment, this product is not expected to move through the soil, based on physical and chemical properties.

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. 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. The container for this product can present explosion or fire hazards, even when emptied. Do not cut, puncture, or weld on or near this container.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1950	Chemical Under Pressure (Fluorinated Hydrocarbon)	2	II
US DOT	3500	Chemical Under Pressure (Fluorinated Hydrocarbon)	2	II
IATA (Air)	3500	Chemical Under Pressure (Fluorinated Hydrocarbon)	2	II
IMO (Marine)	3500	Chemical Under Pressure (Fluorinated Hydrocarbon)	2	II

Environmental Hazards Not applicable

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 listed on the TSCA Inventory.

Additional USA Regulatory Lists

California Proposition 65:

Not applicable.

Massachusetts, New Jersey, and Pennsylvania Right To Know. (Polymethylene polyphenyl isocyanate).
(Phosphoric acid, tris(2-chloro-1-methylethyl) ester)

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SARA Title III - Section 302:
Not applicable.

SARA Title III - Section 311/312:
Acute Health Hazard
Chronic Health Hazard
Reactive Hazard
Sudden Release of Pressure Hazard

SARA Title III - Section 313:

MDI and PMDI are subject to the reporting levels established by Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986.

4,4'-Diphenylmethane diisocyanate (CAS# 101-68-8) is 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.

Polymeric MDI (CAS #9016-87-9) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: DE, NJ, MN.

This product contains the following CERCLA reportable substance: 4,4'-Diphenylmethane diisocyanate (CAS# 101-68-8):
RQ- 2,268 kg (5,000 lbs).

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 2	Flammability - 1	Instability - 1
SDS Prepared By	Technical Services Department		
Phone No.	519-823-4994		
Date of Preparation	September 19, 2018		
Date of Last Revision	September 19, 2018		
Revision Indicators	Revision 1		
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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