



**ADVANCED POLYMER, INC.**

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## AdvaPel® 746

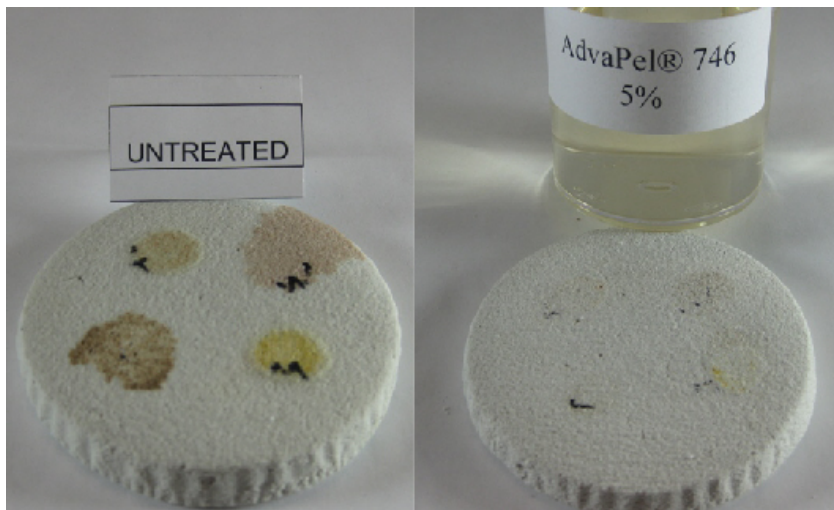
AdvaPel 746 is a short-chain fluorochemical emulsion product that will provide exceptional protection for hard surfaces with little or no change in appearance. AdvaPel 746 is based on non-C8 chemistry and, as such, is considered to be non-PFOA contributing.

### CHARACTERISTICS

- Can be used in spray applied consumer based applications
- Imparts excellent water, oil and stain repellency to hard surfaces
- Vapor permeable: Reduces cracking and freeze/thaw damage
- Ambient cure
- Good stability on alkaline surfaces such as concrete, grout and masonry
- Adheres to a variety of substrates
- Makes cleaning easier

### APPLICATION

- Marble, Limestone, Concrete/Masonry
- Saltillo Tile, Clay Tile, Stucco
- Granite, Terrazzo, Grout



Test surface: Grout

Staining agents were left in contact with the surface for 24 hrs & then removed.  
Clockwise from Top Left: Ketchup, Red Wine, Mustard, Coffee

### TYPICAL PROPERTIES

Appearance:	Clear Light Yellow Liquid
Solid Content:	10%
Density @ 25°C:	1.05 ± .03
pH:	6.0
Boiling Point:	Approx. 100°C
Volatile Organic Content:	103 g/l

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## AdvaPel® 746

### FORMULATION

**Dilutions:** Recommended dilution rates vary from 25% to 50% of AdvaPel 746 depending on the application, application rate, porosity of the substrate, desired performance and cost parameters. For optimum results it is recommended that the formulation procedure be followed as written.

AdvaPel 746 will provide excellent repellency on concrete, grout, limestone, stucco, pavers and tile when applied at the rate of 1 gallon per 200 to 400 square feet. Low porosity stones and surfaces will yield higher coverage.

#### *PROCEDURE FOR FORMULATION:*

Example: Basis = 500 grams

Ingredient	% by Weight	Weight (g)
AdvaPel 746	50.0	250.0
Tap Water or Distilled Water	50.0	250.0
Total	100.0	500.0

- Add tap water or distilled water to AdvaPel 746 with moderate, low shear agitation.
- Mix thoroughly.

### HANDLING & STORAGE

For long-term storage of formulated product it is recommended that a biocide be added. Please consult with a biocide manufacturer for best recommendation and challenge study. Refer to MSDS for proper handling and storage.

### PACKAGING

AdvaPel 746 is available in 8 oz. samples and 441-lb drums.

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#### I want to know more!

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Revised January 28, 2011

## AdvaPel® 746

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### Section I Product Identity

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Product Name: AdvaPel® 746  
Chemical Name/Family: Fluorinated Polymer  
CAS Registry: Mixture  
24 Hour Emergency Number 800-424-9300  
24 Hour Chemtrec Number 800-424-9300

All ingredients are listed in EPA's TSCA list of chemical substances or otherwise are in compliance.

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### Section II Hazardous Components/Composition Information

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CHEMICAL	CAS #	TWA	STEL	Ceiling	Percent
Isopropyl Alcohol	67-63-0	200ppm	400ppm		2 – 4
2-butoxyethanol	111-76-2	97mg/m3/20ppm			2 - 4

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### Section III Physical and Chemical Properties

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Boiling Point ~100°C (212°F)  
Specific Gravity (H<sub>2</sub>O=1) 1.03  
Vapor Pressure 2-butoxyethanol: 0.4mm Hg @ 68°F (20°C)  
Isopropyl Alcohol: 33 mm Hg @ 68°F (20°C)  
Vapor Density (Air=1) Heavier than air  
Percent Volatile By Weight 90  
Evaporation Rate (Water=1) ~1  
Percent Solids By Weight 10  
Volatile Organic Content By Weight 103 grams/liter  
Solubility in Water Dispersible  
Appearance and Odor Clear, pale yellow liquid

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### Section IV Fire and Explosion Hazard Data

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Flash Point (Method Used) 132°F (Tag CC)  
Flammable Limits in Air (% By Volume) LEL: 1.1% (v) 2butoxyethanol  
UEL: 12% (v) isopropanol  
Extinguishing Media Water spray, foam, dry chemical powder, or carbon dioxide. Avoid direct water streams that may spread spilled liquids.  
Special Fire Fighting Procedures: Fire fighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move non-burning containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool. Containers may rupture in extreme heat.  
Unusual Fire and Explosion Hazard Burning may produce oxides of carbon and toxic products such as hydrogen fluoride and other perfluorinated organic compounds.

## Section V Reactivity Data

Stability	Stable
Conditions to Avoid	Avoid contact with heat. Perishable upon freezing.
Incompatibilities	Strongly alkaline materials, Lewis Acids, or magnesium, aluminum and their alloys above 212°F (100°C).
Hazardous Decomposition or By Products	May produce oxides of carbon, and toxic products such as hydrogen fluoride and other perfluorinated organic compounds.
Hazardous Polymerization	Will not Occur

## Section VI Health Hazard Data

Primary Routes of Entry	Inhalation: Yes	Dermal: Yes	Ingestion: Yes
Acute Health Hazard	2-butoxyethanol Eye: Moderate irritant (Rabbit)		
	2-butoxyethanol Skin: Moderate irritant (Rabbit) Dermal LD50 (Rabbit) 435mg/kg		
	2-butoxyethanol Toxicity: Oral LD50 (rat) 1.48 g/kg; Oral LD50 (mouse) 1.2 g/kg		
	Isopropanol: Toxicity: Oral LD50 (Rat) 4700-5800 mg/kg; Approximate Lethal dose, 100 ml		
Chronic Health Hazard	N.D.		
Carcinogenicity			
NTP: No	IARC Monograph: No	OSHA Regulated: No	

### Signs and Symptoms of Exposure:

Skin Contact	Prolonged or repeated contact may cause irritation or defatting, leading to dryness. May be absorbed through the skin and cause effects similar to inhalation exposure.
Eye Contact	Causes irritation, including stinging, tearing, redness and swelling.
Ingestion	Swallowing large amounts of organic solvents may affect the central nervous system, causing effects similar to inhalation exposure.
Inhalation	Organic solvent vapor or mist inhalation may cause irritation of the nose, mouth, throat and lungs. Breathing large amounts of organic solvent vapors or mists may affect the central nervous system, causing headache, dizziness, nausea, confusion, loss of coordination, impaired judgement, or similar effects.

### Medical Condition Generally Aggravated by Exposure

Repeated over exposure to organic solvents can cause permanent damage to the central nervous system.

### Emergency First Aid Procedures

Eyes	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.
Skin	Immediately wash skin with soap and water.
Ingestion	Do not induce vomiting. Immediately give 2 glasses of water. Do not give anything by mouth to an unconscious person. Call a physician.
Inhalation	Immediately remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Please note: Symptoms may be delayed; prompt medical attention may be required. Call a physician.

## Section VII Precautions for Safe Handling and Use

### Steps to be Taken in Case the Material is Released or Spilled:

Eliminate any ignition sources and soak up with sawdust, sand, oil dry or other absorbent material and dispose properly. Shut-off leak if it is safe to do so. Use non-metallic or non-sparking tools. Evacuate and keep out any personnel not wearing proper protective equipment. Large Spill: Prevent liquid from entering sewers or waterways. Dike and contain spilled material. Remove with explosion proof vacuum equipment or pump to storage/salvage containers. Be aware of potential fire and explosion hazards due to vapor build-up in low-lying or enclosed areas.

### Waste Disposal Method:

Dispose in accordance with EPA, state and local regulations. RCRA Information: If this material becomes a waste, it meets the definition of ignitable waste (D001) under 40CFR261.

## Section VIII Special Precautions

### Precautions to be Taken in Handling and Storage:

**HANDLING:** Handle open containers with care and with adequate ventilation. Ground and/or bond containers and vessels when transferring product. Use non-sparking and explosion proof equipment. Do not handle near an open flame, heat, sparks or other sources of ignition. Wear appropriate personal protective equipment. For spray applications, use a coarse spray device such as trigger spray with particle size production greater than 15 microns. Use only low pressure (<60 psi) sprayer. **DO NOT aerosolize or atomize.**

**STORAGE:** Store in a tightly closed container in a well ventilated area away from incompatible materials. Do not store near an open flame, heat, or other source of ignition. Protect material from direct sunlight. Protect from freezing. \*\*\* **Agitate contents of container before using** \*\*\*

## Section IX Control Measures

Respiratory Protection	If workplace exposure limits of product or any component are exceeded, a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control.	
Ventilation	Local exhaust	Recommended where vaporizing occurs.
	Mechanical	General ventilation is recommended.
	Special	None
	Other	OSHA regulations also permit other NIOSH/MSHA respirator (negative pressure type) under specified conditions (consult your safety representative).
Eye Protection	Safety glasses with side shields or goggles should be worn. A splash shield is recommended when splashing is possible.	
Protective Gloves	Imperious gloves should be worn.	
Protective Clothing	Rubber apron, boots or coveralls as necessary to prevent skin contact.	
Other Protective Equipment	Eye wash equipment.	
Other Precautions	Wash hands thoroughly after handling material.	

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## Section X SARA Title III

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### SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of SECTION 313 of the EMERGENCY PLANNING AND COMMUNIUTY RIGHT-TO-KNOW ACT OF 1986 and of 40 CFR 371

<u>CHEMICAL</u>	<u>CAS#</u>	<u>Percent</u>
Isopropanol	67-63-0	2-4
2-butoxyethanol	111-76-2	2-4

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL

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## Section XI Transportation Information

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### SHIPPING INFORMATION

Non-bulk US ground: Not regulated for D.O.T. purposes.

Bulk US Ground: Combustible Liquid, NOS (Contains Isopropanol); NA 1993; PG III

TDG, IATA, ICAO, IMDG information: Flammable Liquid, NOS (contains isopropanol); Class 3; UN 1993; PG III

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## Hazard Ratings

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Health	1
Flammability	2
Reactivity	0

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Prepared By ..... API

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Revised By ..... API

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