



ADVANCED POLYMER, INC.

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APFS-76S

APFS-76S is a short-chain nonionic water-based fluorosurfactant that was designed to provide excellent cleanability and oil repellency when added to flat finish architectural paints and water based coatings. In addition to enhancing the oil repellency, APFS-76S will improve the chemical resistance and dirt pick up resistance performance.

CHARACTERISTICS

- Short-chain fluorochemical technology
- Increases cleanability of flat architectural paints and water based coatings.
- Provides oil repellency and dirt pick-up resistance.
- Works in a wide variety of latex systems.
- Increases substrate wetting. Excellent flow and leveling properties.
- Does not interfere with recoat adhesion.
- Coatings can be spray applied at recommended levels.

APPLICATIONS

- Latex Paints and Coatings
- Wood Coatings

TYPICAL PROPERTIES

Appearance:	Milky White Emulsion
Specific Gravity (@ 25°C):	1.05
Ionic Nature:	Nonionic
pH (as is):	4.0
Solids Content:	30%

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PERFORMANCE

Formulation:

Recommended use rates of APFS-76S as a additive to flat finish, latex coatings vary from 0.1%–0.3% actives/solids. Make sure that APFS-76S is agitated sufficiently when incorporated into the latex coating.

Method of Application:

To demonstrate the performance of APFS-76S as an additive to provide oil repellency and improved cleanability, a standard architectural flat finish latex paint was selected from a major paint manufacturer. APFS-76S was added to the paint, coated and allowed to cure for 7 days. Once cured, olive oil was placed on the paint for 24 hours, and then cleaned with a damp sponge. The paint was then rated for stain resistance. The results of this test are shown in the table below: (rating scale: 0 no effect, 1 very slight effect, 2 slight effect, 3 moderate effect, 4 severe).

Sample	Cure Time	Cure Condition (Temp and Humidity)	% Active added to the paint	Resistance Rating
Control	7 days	70°F at 50% RH	None	2
APFS-76S	7 days	70°F at 50% RH	0.1	1
APFS-76S	7 days	70°F at 50% RH	0.3	0

HANDLING & STORAGE

Do not freeze. Refer to MSDS for proper handling and storage.

PACKAGING

APFS-76S is available in 4 oz samples and 441-lb drums.

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interested in ...

APFS-75S

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Revised May 31, 2012

APFS-76S

Section I Product Identity

Product Name: APFS-76S
Chemical Name/Family: Perfluoroalkylacrylate emulsion
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. The base polymer is subject to a consent order regarding a pre-manufacturing notice under Section 5(e) of TSCA. In addition, the base polymer is subject to export notification requirements under Section 12(b) TSCA.

Section II Hazardous Components/Composition Information

CHEMICAL	CAS #	TWA	STEL	Ceiling	Percent
Fluoropolymer	Trade Secret				30
Water	7732-18-5				~70

OSHA Hazardous Component (29CFR1910.1200): None

Section III Physical and Chemical Properties

Boiling Point 212°F
Specific Gravity (H₂O=1) 1.05
Vapor Pressure N.D.
Vapor Density (Air=1) N.D.
Percent Volatile By Weight 70
Evaporation Rate (BuAc=1) N.D.
Percent Solids by Weight 30
Solubility in Water Miscible
Appearance and Odor Milky white emulsion.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used) N.D.
Flammable Limits in Air (% By Volume) N.D.
Extinguishing Media Alcohol foam, CO₂, dry chemical or water spray.
Special Fire Fighting Procedures: A self-contained breathing apparatus and protective clothing must be worn in fighting fires involving chemicals.
Unusual Fire and Explosion Hazard Flammable vapor may flash back to ignition source. Burning may produce toxic vapors, including HF and carbon monoxide.

Section V Reactivity Data

Stability	Stable
Conditions to Avoid	Over heating or freezing.
Incompatibilities	Oxidizers, metal chlorides, acids
Hazardous Decomposition or By Products	May produce HF
Hazardous Polymerization	Will not Occur

Section VI Health Hazard Data

Primary Routes of Entry	Inhalation: Yes	Dermal: Yes	Ingestion: Yes
Acute Health Hazard	No information available		
Chronic Health Hazard	No information available		
Carcinogenicity	N.D.		
NTP: No	IARC Monograph: No	OSHA Regulated: No	

Signs and Symptoms of Exposure:

Skin Contact	May be harmful.
Eye Contact	Causes irritation.
Ingestion	May be harmful if swallowed.
Inhalation	May be harmful if inhaled.

Medical Condition Generally Aggravated by Exposure

Excessive exposure to thermal degradation products could result in delayed pulmonary edema in some cases, and or very high exposure, damage to the liver and kidneys. These substances may include: perfluoro isobutylene (TLV=10ppb); carbonyl fluoride (TLV=2ppm TWA, 5ppm STEL) hydrogen fluoride (TLV=2ppm Ceiling, 0.5ppm TWA).

Emergency First Aid Procedures

Eyes	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.
Skin	Wash 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:

Soak up with sawdust, sand, oil dry or other absorbent material.

Waste Disposal Method:

As in accordance with EPA and local regulations.

Section VIII Special Precautions

Precautions to be Taken in Handling and Storage:

**** Do not aerosolize APFS-76S or formulations containing APFS-76S**** Store at temperatures between 35°F (2°C) to 95°F (35°C). Store in a tightly closed container. Store in a well ventilated area. Store away from sources of heat, direct sunlight or rain. ***Agitate contents of container before using.***

Section IX Control Measures

Respiratory Protection	If material is heated above 200°C, use a positive pressure air supplied respirator or SCBA	
Ventilation	Local exhaust ventilation	If material is heated above 200°C, use local exhaust
	Mechanical	General ventilation is recommended
	Special	None
	Other	None
Eye Protection	Safety glasses should be worn.	
Protective Gloves	Imperivous 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.	

Section X SARA Title III

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

CHEMICAL

CAS#

Percent

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

Section XI Transportation Information

SHIPPING INFORMATION

Not regulated for D.O.T. purposes.

Hazard Ratings

Health	1
Flammability	1
Reactivity	0

Date Prepared May 31, 2012

Prepared By API

Date Revised

Revised By

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