

APFS-76S

Section 1. Product and Company Identification

Product Name: **APFS-76S**
Chemical Name/Family: Perfluoroalkylacrylate emulsion
CAS No.: Mixture
Product Use: Paints & Coatings Additive
Restrictions: For Industrial Use Only
Company: Advanced Polymer, Inc.
Address: 400 Paterson Plank Road Carlstadt, NJ 07072 U.S.A.
Telephone: 201-933-0600
Fax: 201-933-8442
24 Hour Emergency Number 800-424-9300
24 Hour Chemtrec Number 800-424-9300

Section 2. Hazards Identification

GHS Classification:

Physical Hazards Not classified
Health Hazards Not classified
Environmental Hazards Not classified

GHS Label:

Symbol: **None**

Signal Word: **None**

Hazard Classification:

Hazard Statement: **None**

Precautionary Statement: **None**

Other Hazards:

Inhaling fumes or mists may irritate the respiratory organs. (Cough, discomfort, labored breathing etc.)

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Fluoropolymer	Trade Secret	30.0
Water	7732-18-5	70.0

There are no components contained in this material at concentrations above 1% that are considered hazardous under 29CFR1910.1200.

Section 4. First Aid Measures

- Skin Contact:** Wash affected areas with plenty of water and soap for several minutes. Call a physician if irritation develops.
- Eye Contact:** First rinse eyes with water. Remove any contact lenses, and continue washing with running water for at least 15 minutes. Call a physician if irritation develops.
- Inhalation:** If inhaled, remove the affected individual immediately to fresh air. Call a physician if respiratory irritation develops or if breathing becomes difficult.
- Ingestion:** If swallowed seek medical immediately and show the doctor packing or label. Give 3-4 glasses of water, but do not induce vomiting. If vomiting continues, give water again. Do not give anything to an unconscious or convulsing person.

Section 5. Firefighting Measures

- Specific Hazards in Case of Fire:** This product is non-flammable. However, if involved in a fire or if overheated (>200°C(392°F)), there is a risk of generation of toxic degradation products such as: hydrogen chloride, hydrogen fluoride, carbonyl fluoride, carbon monoxide, and carbon dioxide. Between 425-450°C(797-842°F), toxic particulate with a size of 0.2-0.5µm may be generated by heat degradation. Over 470°C (878°F), perfluoro isobutylene may be generated by heat degradation.
- Fire Extinguishing Media:** Use dry chemical, alcohol-resistant foam, water spray or carbon dioxide for surrounding fire.
- Unsuitable Extinguishing Media:** None
- Special Protective Equipment and Precaution for Firefighters:** Wear self-contained breathing apparatus in confined areas or when exposed to combustion products. Move container from fire areas if it can be done without risk. Cool containers with water spray. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
- Unusual Fire & Explosion Hazards:** No information available

Section 6. Accidental Release Measures

- Personal Precautions:** Ensure adequate ventilation.
- Protective Equipment:** Use personal protective clothing.
- Environmental Precautions:** Collect contaminated water/firefighting water separately. Do not wash away into shower or waterway.
- Methods and Materials for Containment and Cleaning up:** Take up with absorbent material (e.g. sand, general-purpose binder)

Section 7. Handling and Storage

- Handling Conditions:** Avoid contact with eyes. Avoid circumstances that release respirable particles. For spray applications, use a coarse spray device such as trigger sprayer or pressurized dispenser with particle size production of greater than 15 microns. Adjust spray pressure to keep particle size greater than 15 microns. DO NOT

aerosolize or atomize. Suitable ventilation must be used during application. Do not breathe spray. During fumigation/spraying wear suitable respiratory equipment.

****Agitate contents of container before using****

APFS-76S can be spray applied in industrial applications if proper handling and application precautions are observed.

I. PRECAUTIONS FOR APPLICATION:

The above products should be used only by trained personnel. **Do not under any circumstances aerosolize or atomize these products.**

Consumer and/or aftermarket coatings and /or finishes containing these materials must be applied via roller, brush, rag, mop or other non-spray method.

For industrial spray applications: these products should only be dispensed by airless sprayers less than 50 psi with a particle size production of greater than 15 microns or a coarse spray device such as a trigger sprayer. Avoid breathing vapor or spray mist. Never use a paint sprayer to apply these products. Power paint sprayers generate very high pressures, aerosolize the product and create significant combustion hazards.

A respirator must be used when spraying these products and the products should only be used in areas with proper ventilation. Avoid contact with eyes or skin. Glasses or goggles, gloves and other protective clothing should always be worn when the product is used. Avoid contamination of tobacco products. Wash hands thoroughly before smoking.

Use the proper equipment. This includes:

- Exhaust fan
- Low pressure airless sprayer (less than 50 psi)
- Respirator with organic vapor cartridge
- Glasses or goggles, gloves and protective clothing

Before you start spraying:

- Set up cross ventilation, open doors and windows, place a fan blowing out of a window or door to increase exhaust
- Remove all people and animals from the exposure area. All personnel in the exposure area wear a proper fitting respirator with organic vapor cartridge
- Turn off air conditioning or heating units and remove all ignition sources
- Use low pressure airless sprayer (less than 50 psi)

When spraying solvent-based systems, solvent will continue to evaporate after the product has been applied, so you must do the following until the solvent vapor concentration is below 300 ppm (about 60 minutes):

- Continue cross ventilation
- Keep people and animals out of the spray area
- Continue to wear respirators in the spray area
- Do not expose the treated fabric to open flame or other ignition sources (such as, matches, or cigarette lighters)

After the product dries, only the soil and stain repellent is left behind on the treated substrate. It is safe, non-hazardous and hypoallergenic. The treated substrate will be dry to the touch after 30-60 minutes and is completely dried and ready for use within 24 hours.

Storage Conditions:

Keep container tightly closed. Keep away from heat, and sunlight.

Storage temperature range: 0-40°C. (32-104°F)

If material freezes, gently thaw prior to use. Mild agitation may be required.

****PROTECT FROM FREEZING*** If the product freezes, allow to thaw then mix thoroughly. Product quality testing should be performed before using the product.

Section 8. Exposure Control/Personal Protection

Exposure Limits:	Acetic acid; TLV-TWA - 10ppm, STEL - 15ppm
Appropriate engineering controls:	Use suitable ventilation to remove spray mists and vapor or fume generated by applications wherethe fluoropolymers will be exposed to elevated temperatures.
Personal protective equipment:	
Respiratory Protection:	An air purifying respirator with organic vapor cartridge or canister.
Hand Protection:	Protective gloves.
Eye Protection:	Chemical goggles and face shield
Skin and Body Protection:	Rubber apron, boots or coveralls as necessary to prevent skin contact.
Other Protective Equipment:	Eye wash equipment and safety shower.
Hygiene Measures:	Hands should be washed thoroughly after handling.

Section 9. Physical and Chemical Properties

Physical State:	Emulsion
Color:	Milky white
Odor:	No information available
Odor Threshold:	No information available
% Non-volatile by Weight:	30
pH:	1.8-4.5
Specific Gravity (77°F):	1.05
% Volatile by Weight:	70
Melting Point:	No information available
Freezing Point:	No information available
Boiling point:	212°F
Flash Point:	Non-flammable (Cleveland open cup)
Evaporation Rate (BuAc=1):	No information available
Flammability:	No information available
Explosion Limits:	No information available
Vapor Pressure (mmHg):	No information available
Vapor Density (Air=1):	No information available
Solubility:	Dispersible
Partition Coefficient:	No information available
Auto-ignition Temperature:	No information available
Viscosity:	No information available
Decomposition Temperature:	No information available

Section 10. Stability and Reactivity

Chemical Stability:	Stable
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Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Over heating or freezing. Avoid long storage periods in more than 40deg.C (104deg.F) since the product degrades with age. PROTECT FROM FREEZING.
Incompatible Materials:	Oxidizers, metal chlorides, acids
Hazardous Decomposition Products:	In a fire situation, hydrogen chloride, hydrogen fluoride, carbonyl fluoride, carbon monoxide and carbon dioxide may liberate.

Section 11. Toxicological Information

Primary Routes of Entry:

Eye:	Yes	Skin:	Yes	Inhalation:	Yes	Ingestion:	Yes
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Potential Health Effects:

Inhalation:	It may cause cough and headache.
Ingestion:	It may cause nausea, vomiting, headache, etc.
Skin:	It may cause skin irritation with discomfort, rash, or redness.
Eyes:	It may cause eye irritation with discomfort, tearing, or blurred vision.

Signs and Symptoms of Exposures: Inhalation of aerosol or fine spray mist may cause serious respiratory problems. Inhaling fumes or mists from overheating fluoropolymers may cause lung irritation and "polymer fume fever" a temporary flu-like illness.

Acute Toxicity: LD50(oral): no data
14.85g/kg (DPG)
Non-irritant, index0.0 (OECD404)
Eye(rabbit), Mild - 500mg (DPG)

Chronic Toxicity: No information available

Respiratory or Skin Sensitization: No information available

Mutagenicity: Ames Assay: negative OECD No.471(Fluoropolymer)

Carcinogenicity:

IARC:	No	NTP:	No	OSHA:	No
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Section 12. Ecological Information

Ecotoxicity (Aquatic and Terrestrial):	COD : 111,000 mg/l JIS K 0102 17 BOD : 1,200 mg/l JIS K 0102 21
Bioaccumulative Potential	No information available
Mobility in Soil:	No information available
PBT and vPvB Assessment:	No information available
Other Adverse Effects:	No information available

Section 13. Disposal Considerations

Product: Waste can be disposed of with skill and caution in an approved incinerator in accordance with a federal, national and local regulations. Comply with all federal, national and local regulations. Do not dump this product into sewers, on the ground or into any body of

water.

Disposing of Contaminated Packaging:

Dispose of as unused product.

Section 14. Transport Information

Land Transport (DOT):	Not Regulated
Sea Transport (IMDG):	Not Regulated
Air Transport (IATA):	Not Regulated
Environmental Hazards (e.g., Marine pollutant):	None

Section 15. Regulatory Information

International Inventories:	
TSCA (USA):	Listed
Federal Regulations:	
SARA 313:	No information available
SARA 311/312:	No information available
Clean Water Act:	No information available
Clean Air Act, Section 112 HAPs (See 40CFR61):	No information available
State Regulations:	
Massachusetts Right to Know Components:	No information available
New Jersey Right to Know Components:	No information available
Pennsylvania Right to Know Components:	No information available
California Proposition 65:	No information available

Section 16. Other Information

WHMIS Classification:

HMIS Rating:

Health Hazard	1
Flammability:	1
Physical Hazard:	1
Personal Protection Equipment:	X

NFPA Rating

Health Hazard:	1
Fire Hazard:	1
Reactivity Hazard:	1

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