

APFS-14

Section 1. Product and Company Identification

Product Name: **APFS-14**
Chemical Name/Family: Fluorinated Surfactant
CAS No.: Proprietary
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

Flammable Liquids Category 3

Health Hazards

Eye Irritation Not Classified

Skin Irritation Not Classified

Specific target organ toxicity, single exposure; Respiratory tract irritation Category 3

Specific target organ toxicity, single exposure; Oral Category 2

Specific target organ toxicity, repeated exposure Category 1

Environmental Hazards

Not Classified

GHS Label:

Symbol:



Signal Word:

Danger

Hazard Statement:

Flammable liquid and vapour.

May cause respiratory irritation.

May cause gastrointestinal discomfort, nausea, vomiting, diarrhea, central nervous system depression, liver effects, temporary, blurred vision if ingested.

Causes damage to central nervous system depression, liver, kidney and nerve damage through prolonged or repeated exposure.

Precautionary Statement:

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion proof electrical/ventilating/lightning and other equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

Wash hands and exposed skin thoroughly after handling.

Do not eat, drink, or smoke when using this product.

Response

IF ON SKIN (or hair) Remove/Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower.

In case of fire: Use dry chemical, CO₂, water spray(fog) or foam.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POSITION CENTER or doctor/physician if you feel unwell.

IF exposed or if you feel unwell: Call a POSITION CENTER or doctor/physician.

Get medical advice/attention if you feel unwell.

Storage:

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

Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/international regulations.

Potential Health Effects:

Skin: Prolonged or repeated contact may cause dry skin and irritation.

Eyes: May cause eye irritation, tearing, redness and discomfort.

Inhalation: Inhalation of aerosol or fine mist spray may cause serious respiratory problems. Inhalation of decomposition products in high concentrations may cause shortness of breath. May cause temporary blurred vision.

Ingestion: May cause gastrointestinal discomfort, nausea, vomiting, diarrhea, central nervous system depression, liver effects, temporary, blurred vision if ingested.

Section 3. Hazardous Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Perfluoroalkyl betaine	Proprietary	25.0 – 30.0
Water	7732-18-5	25.0 – 49.0
Ethyl Alcohol	64-17-5	25.0 – 40.0
Methanol	67-56-1	1.00 – 5.00

Section 4. First Aid Measures

Skin Contact:	Wash affected areas with plenty of water and soap for several minutes. Wash contaminated clothing before reuse. 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. Symptoms may be delayed. Call a physician if respiratory irritation develops or if breathing becomes difficult.
Ingestion:	If swallowed seek medical attention immediately and show the doctor packing or label. Do not induce vomiting unless directed to do so by medical personnel. Do not give anything to an unconscious or convulsing person.

Section 5. Firefighting Measures

Fire and Explosion Hazard:	Flammable liquid. Flash point 25°C (77°F)
Fire Extinguishing Media:	Use foam, dry chemical, carbon dioxide for extinction.
Unsuitable Extinguishing Media:	None
Thermal Decomposition:	To avoid thermal decomposition, do not overheat. Thermal decomposition can lead to release of hydrogen fluoride, carbon dioxide, carbon monoxide and other irritating gases and vapors.
Special Fire Fighting Information:	Evacuate personnel to safe areas. Wear self-contained breathing apparatus and appropriate full protective equipment. Move containers from area of the fire if this can be done without risk. Cool fire-exposed containers with water. Do not allow run-off from fire-fighting to enter drains or water courses.

Section 6. Accidental Release Measures

Personal Precautions:	Evacuate personnel to safe area. Ensure cleanup is done only by trained personnel. Material can create slippery conditions.
Protective Equipment:	Wear personal protective equipment. Ventilate area.
Environmental Precautions:	Do not discharge to streams, ponds, lakes or sewers. Avoid subsoil penetration.
Methods and Materials for Containment and Cleaning up:	Soak up with sawdust, sand, oil dry or other absorbent material. Pick up and transfer to properly labelled containers.

Section 7. Handling and Storage

Handling Conditions:	Avoid contact with skin, eyes and clothing. Do not breathe vapors, mist or gas. Wash hands thoroughly after handling. Do not spray near open flame or heated surface. Vapours may form explosive mixtures with air. Do not use sparking tools. Ground containers when transferring material. Agitate thoroughly before use.
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APFS-14 is SUITABLE FOR USE IN PRODUCTS INTENDED FOR INDUSTRIAL, AFTERMARKET OR CONSUMER APPLICATION.

PRECAUTIONS FOR SPRAY APPLICATION:

These products should be used only by trained personnel. **Do not under any circumstances aerosolize these products.**

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 in a dry, cool and well-ventilated place. Keep away from heat, and sunlight.

Section 8. Exposure Control/Personal Protection

Exposure Limits:

Ethanol			
PEL (OSHA)	1000 ppm	1900 mg/m ³	8 hr. TWA
TLV (ACGIH)	1000 ppm	STEL	
Methanol			
PEL (OSHA)	200 ppm	260 mg/m ³	8 hr. TWA
TLV (ACGIH)	250 ppm	STEL	

Appropriate engineering controls: Non-spraying and explosion proof equipment should be considered based on type of operation. Local ventilation must be used during application in order to remove fumes.

Personal protective equipment:

Respiratory Protection:	Use suitable ventilation and wear suitable personal respiratory protection as well as protective suit in case of mist, spray or aerosol exposure.
Hand Protection:	Wear protective gloves.
Eye Protection:	Wear safety glasses with side shields or goggles.
Skin and Body Protection:	Rubber apron, boots or coveralls as necessary to prevent skin contact.
Hygiene Measures:	An eyewash and safety shower should be nearby and ready for use.

Section 9. Physical and Chemical Properties

Physical State:	Liquid
Color:	Clear, amber colored
Odor:	Alcohol odor
Odor Threshold:	N.D.
pH:	6.0 – 7.0
Specific Gravity (77°F):	1.03
% Volatile by Weight:	~73.0
Melting Point:	N.D.
Freezing Point:	N.D.
Boiling point:	~82°C (180°F)
Flash Point:	25°C (77°F)
Evaporation Rate (BuAc=1):	N.D.
Flammability:	N.D.
Explosion Limits:	(lower) N/D, (upper) N/D
Vapor Pressure (mmHg):	40.0 (20°C)
Vapor Density (Air=1):	N.D.
Solubility:	Soluble
Viscosity:	N.D.
Thermal Decomposition Temperature:	>200.0°C (>392.0°F)

Section 10. Stability and Reactivity

Chemical Stability:	Stable under normal temperature and pressure.
Hazardous Polymerization:	None
Conditions to Avoid:	Do not overheat to prevent from thermal decomposition.
Incompatible Materials:	Strong oxidizers
Hazardous Decomposition Products:	In case of fire situation, hydrogen fluoride, carbon monoxide, carbon dioxide and other hazardous decomposition products may be formed.

Section 11. Toxicological Information

Primary Routes of Entry:

Eye:	Yes	Skin:	Yes	Inhalation:	Yes	Ingestion:	No
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Potential Health Effects:

Inhalation	Inhalation of aerosol or fine mist spray may cause serious respiratory problems. Inhalation of decomposition products in high concentrations may cause shortness of breath. May cause temporary blurred vision.
Ingestion:	May cause gastrointestinal discomfort, nausea, vomiting, diarrhea, central nervous system depression, liver effects, temporary, blurred vision if ingested.
Skin:	Prolonged or repeated contact may cause dry skin and irritation.
Eyes:	May cause eye irritation, tearing, redness and discomfort.
Signs and Symptoms of Exposures:	No information available
Acute Toxicity:	No information available

Chronic Toxicity: No information available
Respiratory or Skin Sensitization: No information available
Mutagenicity: Did not show any mutagenic effects.
Carcinogenicity:

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

Ecotoxicity (Aquatic and Terrestrial): No information available
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: As in accordance with EPA, state and local regulations. Do not dump this product into sewers, on the ground or into any body of water. Follow local and national guidelines.
Disposing of Contaminated Packaging: Treat as unused product as above.

Section 14. Transport Information

Land Transport (DOT):
UN Number: UN1170
UN Proper Shipping Name: Ethanol Solutions
Transport Hazard Class: 3
Packing Group: III
Hazard Label(s): Flammable Liquid

Sea Transport (IMDG):
UN Number: UN1170
UN Proper Shipping Name: Ethanol Solutions
Transport Hazard Class: 3
Packing Group: III
Hazard Label(s): Flammable Liquid

Air Transport (ICAO/IATA):
UN Number: UN1170
UN Proper Shipping Name: Ethanol Solution
Transport Hazard Class: 3
Packing Group: III
Hazard Label(s): Flammable Liquid

Section 15. Regulatory Information

TSCA:	Listed
Federal Regulations:	
SARA 313:	Methanol (CAS # 67-56-1)
SARA 311/312:	Not applicable
Clean Water Act:	No information available
Clean Air Act, Section 112 HAPs (See 40CFR61):	No information available
State Regulations:	
Massachusetts Right to Know Components:	Ethanol; Methanol
New Jersey Right to Know Components:	Ethanol; Methanol
Pennsylvania Right to Know Components:	Ethanol; Methanol
California Proposition 65:	Methanol

Section 16. Other Information

WHMIS Classification:	No information available
HMIS Rating:	
Health Hazard	2
Flammability:	3
Physical Hazard:	0
Personal Protection Equipment:	X

Date Prepared May 8, 2015
Prepared By Advanced Polymer, Inc.
Date Revised August 30, 2017
Revised By Advanced Polymer, Inc.

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