



ADVANCED POLYMER, INC.

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APG-1430

APG-1430 is a fluorinated product that will provide exceptional protection for hard surfaces with little or no change in appearance.

CHARACTERISTICS

- Excellent oil resistance and water holdout.
- Vapor permeable: reduces cracking, freeze/thaw damage.
- Water-based – low VOC, ambient cure.
- Non-acidic: safe for use on surfaces that will etch (e.g. polished limestone, marble).
- Good stability on alkaline surfaces (e.g. concrete, grout, masonry).
- Adheres to a variety of substrates.
- Makes cleaning easier.

APPLICATION

- Marble, Limestone, Concrete/Masonry
- Saltillo Tile, Clay Tile, Stucco
- Granite, Terrazzo, Grout
- Wood (including pressure treated lumber)

FORMULATION

Dilutions: Recommended dilution rates vary from 16% to 20% of APG-1430 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.

APG-1430 will provide excellent repellency on wood, concrete, brick, 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.

TYPICAL PROPERTIES

Appearance:	Tan Liquid
Solid Content:	13%
Density @ 25°C:	1.06 ± .03
pH:	9.0
Boiling Point:	Approx. 100°C

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PROCEDURE FOR FORMULATION: Example: Basis = 500 grams

Ingredient	% by Weight	Weight (g)
APG-1430	20.0	100.0
IPA	3.0	15.0
Glycol Ether EB	3.0	15.0
Deionized or Distilled Water	74.0	370.0
	100.0	500.0

- 1) While mixing, warm 100 grams APG-1430 with 15 grams IPA and 15 grams Glycol Ether EB to approximately 120°F to form clear solution.
- 2) In a separate container, warm 370 grams of deionized or distilled water to approximately 120°F.
- 3) While mixing, add the heated water to the clear, heated mixture of APG-1430, IPA and Glycol Ether EB.
- 4) The final mixture should be clear. Allow mixture to cool to room temperature prior to application.

***It is critical to follow this procedure to ensure maximum performance ***

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.

PACKAGING

APG-1430 is available in 8 oz. samples and 441-lb drums.

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- APG-658

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Revised November 30, 2009

APG-1430

Section I Product Identity

Product Name: APG-1430
Chemical Name/Family: Fluorophosphate ester
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

Section II Hazardous Components/Composition Information

CHEMICAL :

CAS #:	USOS:	TWA:	STEL:	PERCENT:
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Section III Physical and Chemical Properties

Boiling Point	Approx. 100°C
Specific Gravity (H ₂ O=1)	1.06
Vapor Pressure	ND
Vapor Density (Air=1)	ND
Percent Volatile By Weight	87
Percent Solids By Weight	13
Volatile Organic Content	3%
Evaporation Rate (BuAc=1)	ND
Solubility in Water	Dispersible
Appearance and Odor	Beige to tan colored liquid.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	>200°F (Closed Cup)
Flammable Limits in Air (% By Volume)	N.D.
Extinguishing Media	Use extinguishing media appropriate for surrounding fire.
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	Burning may produce toxic vapors, including HF and carbon monoxide

Section V Reactivity Data

Stability	Stable
Conditions to Avoid	Avoid elevated temperatures (>110°F). Keep from freezing.
Incompatibilities	Oxidizers, metal chlorides and acids
Hazardous Decomposition or By Products	May produce CO, HF
Hazardous Polymerization	May not occur

Section VI Health hazard Data

Primary Routes of Entry	Inhalation: Yes	Dermal: Yes	Ingestion: Yes
Acute Health hazard	N.D.		
Chronic Health Hazard	N.D.		
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

No information is available

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. Never 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:

Dispose of according to State and Local regulations.

Section VIII Special Precautions

Precautions to be Taken in Handling and Storage:

Store at temperatures between 40°F and 95°F. Store in a tightly closed container. Store in a well ventilated area. Store away from oxidizing agents, sources of heat, direct sunlight or rain. No smoking in area of storage. Use soft water (greater than 25 ppm, but less than 80 ppm total hardness). *** **Agitate contents of container before using** ***

Section IX Control Measures

Respiratory Protection	Wear respirator where vaporizing occurs.	
Ventilation	Local exhaust	Recommended where vaporizing occurs.
	Mechanical	General ventilation is recommended.
	Special	None
	Other	None
Eye Protection	Safety glasses should be worn	
Protective Gloves	Impervious gloves should be worn	
Protective Clothing	Apron, boots or coveralls as necessary to prevent skin contact	
Other Protective Equipment	Eye wash equipment	
Other Precautions	Wash hands thoroughly after use.	

Section X SARA Title III

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of SECTION 331 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 and of 40 CFR 371

CAS #

Chemical Name

Percent by Weight

THIS INFORMATION MUST BE INCLUDED IN ALL MSDSs THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL

Section XI Transportation Information

SHIPPING INFORMATION

APG-1430 is not regulated by DOT.

Hazard Ratings

Health	1
Flammability	0
Reactivity	0

Date Prepared December 12, 2005

Prepared By API

Date Revised November 30, 2009

Revised By API

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