



ADVANCED POLYMER, INC.

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APW-312

APW-312 is an emulsion of pure carnauba wax designed to provide excellent surface protection and good mar resistance without lowering gloss. APW-312 can be applied to a variety of substrates including leather, wood, metal, fabric, and painted surfaces.

CHARACTERISTICS

- Provides slip and anti-blocking properties
- Exhibits excellent gloss retention
- Improves scratch and abrasion resistance
- Does not haze
- Contains approximately 5% Butyl Cellosolve

FORMULATION & APPLICATION

♦ WATER BASED PASTE WAX STARTING FORMULATION

Component	Function	Amount (wt%)	Supplier	Phone
APS-328 Gel	Amino Silicone	5%	API	(201) 933-0600
APW-312	Wax	12%	API	(201) 933-0600
Kaopolite SP	Clay	2%	Imerys	(888) 277-9636
Acrysol ASE 60	Thickener	2%	Rohm & Haas	(800) 874-6917
Water		79%		

♦ STARTING FORMULATION FOR LIQUID CAR WAX

Component	Amount (wt%)
Emulsified Mineral Seal Oil	15.9%
Wetting Aid	1.6%
APW-312	15.0%
Water	67.5%

- Produce an emulsion of the mineral seal oil.
- Add wetting aid followed by APW-312.
- For application dilute the wax 1:10 with water. Use approximately 6 to 8 oz. of the wax dilution per application.

TYPICAL PROPERTIES

Appearance:	Tan to Lt. Brown Liquid
Solid Content:	25
Base Carnauba Wax:	#1
Ionic Nature:	Non-ionic
Specific Gravity (@ 25°C):	1.01

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FORMULATION & APPLICATION *continued*

◆ PROTECTIVE COATING

A dilution of APW-312 may be used in a dip-bath or sprayed onto substrate. A thin coating of wax will instantly adhere to the surface. This coating will provide increased gloss, reduces staining, and improves the cleanability of the treated surface.

STORAGE

APW-312 is sensitive to low temperatures. Store at temperatures above 45°F.

PACKAGING

APW-312 is available in 8 oz. samples and 450 lb drum.

You may also be
interested in . . .

- **APW-315**

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I want to know more!

technical@advpolymer.com

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Revised August 19, 2009

APW-312

Section I Product Identity

Product Name	APW-312
Chemical Name/Family	Carnauba Wax Emulsion
CAS Registry #	Mixed product
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 #	OSHA PEL	ACGIH TLV	STEL	PERCENT
Butyl Cellosolve	111-76-2	25 ppm	25 ppm	N/E	<5%

Section III Physical and Chemical Properties

Boiling Point	ND	Specific Gravity (H ₂ O=1)	1.01
Vapor Pressure	ND	Vapor Density (Air=1)	ND
Percent Volatile By Volume	25%	Evaporation Rate (BuAc=1)	ND
Solubility in Water	Insoluble		
Appearance and Odor	Light brown to tan liquid with no particular odor		

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	NA
Flammable Limits in Air (% By Volume)	NA
Extinguishing Media	NA
Special Fire Fighting Procedures	NA
Unusual Fire and Explosion Hazard	Material will not burn.

Section V Reactivity Data

Stability	Stable	X	Unstable	
Conditions to Avoid	None known.			
Incompatibilities	None known, avoid contact with reactive chemicals.			
Hazardous Decomposition or By Products	None known.			
Hazardous Polymerization	May Occur		May Not Occur	X

Section VI Health Hazard Data

Primary Routes of Entry	Inhalation	Yes	Dermal	Yes	Ingestion	Yes
Acute Health Hazard	Oral Toxicity: LD50 (rats) = 5000 mg/kg Dermal Toxicity: LD50 (rabbits) = >2000 mg/kg					
Chronic Health Hazard	Repeated overexposure to butyl cellosolve may cause hemolysis of the red blood cells leading to possible live and kidney damage.					
Carcinogenicity	No information available.					
NTP	No	IARC Monograph	No	OSHA Regulated	Yes	
Signs and Symptoms of Exposure						
Skin Contact	May cause irritation.					
Eye Contact	May cause irritation.					
Ingestion	May cause irritation.					
Inhalation	May cause irritation.					
Medical Condition Generally Aggravated by Exposure: None known.						
Emergency First Aid Procedures						
Eyes	Flush with large amounts of water for at least 15 minutes, seek medical attention.					
Skin	Wash exposed area with soap and water. If irritation persists, seek medical attention.					
Ingestion	First aid is normally not required.					
Inhalation	Get to a well-ventilated area. Call for prompt medical attention.					

Section VII Precautions for Safe Handling and Use

Steps to be Taken in Case the Material is Released or Spilled: Extinguish all ignition sources. Ventilate. Cover spills with inert absorbent, sweep up and place in waste disposal container.
Waste Disposal Method: Dispose of according to State and Local regulations. Not hazardous waste under RCRA Regulation 40 CFR 261.

Section VIII Special Precautions

Storage Conditions: Store at temperatures between 45°F to 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. <u>Agitate contents of container before using.</u>

Section IX Control Measures

Respiratory Protection				
Ventilation	Local exhaust	Recommended		
	Mechanical	General		
	Special	NIOSH approved respirator.	Other	None
Eye Protection		Safety goggles should be worn.		
Protective Gloves		Rubber gloves.		
Protective Clothing		Rubber apron.		
Other Protective Equipment		NIOSH approved respirator.		
Other Precautions		Eyewash station should be available.		

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 MSDS'S THAT ARE DCOPIED AND DISTRIBUTED FOR THIS MATERIAL

Section XI Transportation Information

SHIPPING INFORMATION:

DOT Proper Shipping Name: Not Regulated

Hot Hazard: No

Combustible Class: No

International proper Shipping Name: Not Regulated

AIR (I.C.A.O.) Proper Shipping Name: Not Regulated

Hazard Ratings

Health	2
Flammability	0
Reactivity	0

Date Prepared	March 20, 2005
Prepared By	API
Date Revised	May 28, 2006
Revised By	
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