



**ADVANCED POLYMER, INC.**

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## APS-448

APS-448 is hydrophilic silicone copolymer that can be used in conjunction with a nonionic/anionic detergent to formulate a durable wash and wax type product for automobiles. APS-448 imparts a high luster shine with dust repellency, and will withstand several rainstorms.

### TYPICAL FORMULATIONS:

Automotive Wash/Wax #1	
Component	Amount (wt%)
APS-448	1.5
Nonionic/anionic detergent	2.5
Water	96
<ul style="list-style-type: none"> <li>Mix together using a modest amount of agitation</li> <li>Wash the automobile with the above mixture</li> <li>Rinse and towel dry</li> </ul> <p>The surface of the automobile will be clean and dust resistant with a high luster shine.</p>	

Automotive Wash/Wax #2	
Component	Amount (wt%)
APS-448	8
Ammonium or Sodium Lauryl Sulfate	15
APW-319	2
Water	75
<ul style="list-style-type: none"> <li>Mix together using a modest amount of agitation</li> <li>Wash the automobile with the above mixture</li> <li>Rinse and towel dry</li> </ul> <p>The surface of the automobile will be clean and dust resistant with a high luster shine.</p>	

### TYPICAL PROPERTIES

Appearance:	Light straw colored, transparent fluid
Solid Content:	50%
Ionic Nature:	Nonionic
pH:	6.7
Specific Gravity (@ 25°C):	0.997

Advanced Polymer, Inc.  
 400 Paterson Plank Road  
 Carlstadt, NJ 07072  
 Phone: (201) 933-0600  
 Fax: (201) 933-8442  
[www.advpolymer.com](http://www.advpolymer.com)



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### TYPICAL FORMULATIONS continued:

Water Based Vinyl and Tire Dressing #2	
Component	Amount (wt%)
Acrysol TT-615 or Acrysol ASE-60	2
Water	50
APS-481 Emulsion	10
APS-448	20
IPA	18

- Mix Acrysol TT or Acrysol ASE-60 (Rohm & Haas) with water. Thicken to slightly higher than the desired viscosity with an alkali, as addition of the remaining ingredients will decrease viscosity slightly (approx. 1.4% diethanolamine).
- Add the silicones with a moderate amount of agitation.
- Add IPA in the final stage with ample agitation.
- Wipe or spray onto surface.

### PACKAGING

APS-448 is available in 8 oz. samples and 441-lb drums.

#### Advanced Polymer, Inc.

400 Paterson Plank Road  
Carlstadt, NJ 07072  
Tel: (201) 933-0600  
Fax: (201) 933-8442  
www.advpolymer.com

#### I want to know more!

[technical@advpolymer.com](mailto:technical@advpolymer.com)

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Revised April 16, 2010

## APS-448

### Section I Product Identity

Product Name	APS-448
Chemical Name/Family	Organo-modified silicone solution
CAS Registry	Proprietary
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:

### Section III Physical and Chemical Properties

Boiling Point	212°F
Specific Gravity (H <sub>2</sub> O=1)	1.02
Vapor Pressure	Negligible
Vapor Density (Air=1)	NA
Solid Content	NA
Evaporation Rate (BuAc=1)	NA
Solubility in Water	Soluble
Appearance and Odor	Light straw colored liquid with slight alkoxyolate odor.

### Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	302°F minimum (Open Cup)
Flammable Limits in Air (% By Volume)	ND
Extinguishing Media	Foam, dry chemical or CO <sub>2</sub> .
Special Fire Fighting Procedures:	Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment.
Unusual Fire and Explosion Hazard	None

### Section V Reactivity Data

Stability	Stable
Conditions to Avoid	Store in a well-ventilated place at temperatures below 120°F. Keep container tightly closed. Keep from freezing
Incompatibilities	Avoid contact with strong oxidizing agents and acids. Aluminum at high temperatures.
Hazardous Decomposition or By Products	Combustion may produce CO <sub>2</sub> and CO.
Hazardous Polymerization	May Not Occur

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## Section VI Health hazard Data

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Primary Routes of Entry	Inhalation: NO	Dermal: YES	Ingestion: YES
Acute Health hazard	No information available		
Chronic Health Hazard	No information available		
Carcinogenicity	No information available		
NTP: No	IARC Monograph: No	OSHA Regulated: No	

### Signs and Symptoms of Exposure:

Skin Contact	Prolonged and repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis.
Eye Contact	Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. May cause severe irritation
Ingestion	Although ingestion is unlikely, liquid would irritate upper digestive tract if swallowed.
Inhalation	No information available.

### Medical Condition Generally Aggravated by Exposure

None known

### Emergency First Aid Procedures

Eyes	Immediately flush eyes with plenty of water. Seek medical attention.
Skin	Immediately wash skin with soap and water. Wash contaminated clothing before reuse.
Ingestion	Do not induce vomiting. 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.

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## Section VII Precautions for Safe Handling and Use

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Steps to be Taken in Case the Material is Released or Spilled:

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

Waste Disposal Method:

Dispose of according to EPA, State and Local regulations.

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## Section VIII Special Precautions

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Precautions to be Taken in Handling and Storage:

Store in a well-ventilated place at temperatures below 120°F. Keep container tightly closed. Keep from freezing \*\*\* **Agitate contents of container before using** \*\*\*

**Section IX Control Measures**

Respiratory Protection		
Ventilation	Local exhaust	Not required
	Mechanical	
	Special	
	Other	
Eye Protection	Safety glasses should be worn	
Protective Gloves	Rubber or plastic gloves should be worn	
Protective Clothing	Rubber apron	
Other Protective Equipment	Eye wash equipment and safety shower should be available. NIOSH approved respirator as needed.	
Other Precautions	Wash hands 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 MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL

**Section XI Transportation Information**

SHIPPING INFORMATION

APS-448 is classified as non-hazardous and is not regulated by DOT.

**Hazard Ratings**

Health	1
Flammability	1
Reactivity	0

Date Prepared ..... October 18, 2005  
 Prepared By ..... API  
 Date Revised ..... April 16, 2010  
 Revised By ..... API

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