



ADVANCED POLYMER, INC.

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APS-481 Emulsion

APS-481 Emulsion a self-emulsifiable, reactive, amino-functional emulsion. APS-481 may be diluted in water for application on a variety of substrates including painted surfaces, metal, fabric and leather.

CHARACTERISTICS

- Imparts a durable, lustrous shine to treated surface
- Treated surfaces exhibit soft hand & resist dirt and dust pick up
- Low yellowing tendency

APPLICATION

Soluble In:

Water

Insoluble In:

Odorless Mineral Spirits

Hexane

Isopropyl Alcohol

Toluene

TYPICAL FORMULATIONS

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

- 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% diethanol amine).
- Add the silicones with a moderate amount of agitation.
- Add IPS in the final stage with ample agitation.
- Wipe or spray onto surface.

TYPICAL PROPERTIES

Appearance: Clear translucent fluid

Typical Analysis: >92% solids

Ionic Nature: Nonionic

Specific Gravity (@25°C): 1.0

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APS-481 Emulsion

TYPICAL FORMULATIONS continued

Water Based Vinyl and Tire Dressing #3	
Component	Amount (wt%)
Acrysol TT-615 or Acrysol ASE-60	2
Water	76
APS-481 Emulsion	10
APS-442	
<ul style="list-style-type: none">• Mix Acrysol TT or Acrysol ASE-60 (Rohm & Haas) with water. Thicken to the desired viscosity with an alkali (approx. 1.8% diethanolamine).• Slowly add the silicones to the thickened water with a moderate amount of agitation.• Wipe or spray onto surface.	

STORAGE

When stored in a sealed container at temperatures between 5°C and 30°C, APS-481 Emulsion has a prolonged shelf life.

PACKAGING

APS-481 Emulsion is available in 8 oz. samples and 440-lb. drums.

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I want to know more!

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You may also be interested in . . .

- APG-658
- APS-337B
- APS-ME5 & APS ME6

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Revised April 16, 2010

APS-481 EMULSION

Section I Product Identity

Product Name	APS-481 EMULSION
Chemical Name/Family	Silicone fluid emulsion
CAS Registry	NA
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	NA
Specific Gravity (H ₂ O=1)	1.0
Vapor Pressure	Negligible
Vapor Density (Air=1)	NA
Solid Content	<8%
Evaporation Rate (BuAc=1)	NA
Solubility in Water	Completely
Appearance and Odor	Light yellow fluid. Slight odor.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	200°C (Closed Cup)
Flammable Limits in Air (% By Volume)	ND
Extinguishing Media	Foam, dry chemical or CO ₂ .
Special Fire Fighting Procedures:	Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment.
Unusual Fire and Explosion Hazard	Combustion can produce nitrogen oxides, toxic and corrosive gasses.

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	Will hydrolyze with water, but no hazard. Avoid contact with strong oxidizing agents and acids.
Hazardous Decomposition or By Products	Combustion may produce CO ₂ , CO and methanol (flammable liquid)
Hazardous Polymerization	May Not Occur

Section VI Health hazard Data

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. May cause severe irritation.
Inhalation	May cause severe irritation.

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.

Section VII Precautions for Safe Handling and Use

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

Turn off ignition source. Soak up with sand, oil dry or other absorbent material.

Waste Disposal Method:

Dispose of according to EPA, State and Local regulations.

Section VIII Special Precautions

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	Recommended
	Mechanical	Adequate ventilation system
	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-481 EMULSION is classified as non-hazardous and is not regulated by DOT.

Hazard Ratings

Health	1
Flammability	0
Reactivity	0

Date Prepared December 5, 2005
 Prepared By API
 Date Revised April 16, 2010
 Revised By API

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