



GET THE API ADVANTAGE . . .

APS-PSA 101-10

APS-PSA 101-10 is a silicone pressure sensitive adhesive designed to provide excellent thermal resistance and electrical insulation properties. APS-PSA 101-10 readily adheres to various substrates and will withstand temperatures over 200°C. Fillers, such as mica or glass cloth, may be incorporated into APS-PSA 101-10 to impart fire resistant characteristics to wire coatings.

CHARACTERISTICS

- Very good balance of adhesive and cohesive strength.
- Suitable for fire resistant electrical wire.
- Benzoyl peroxide is the recommended catalyst.

ELECTRICAL PROPERTIES

APS-PSA 101-10 may be used as supplied or, if necessary, diluted with an aromatic hydrocarbon such as toluene or xylene. A catalyst is used in a majority of applications to accelerate polymerization. For example, commercial 2,4-dichlorobenzoyl peroxide, in a 50% paste, may be used at approximately 0.5% to 3% based on the volume of APS-PSA 101-10. The adhesive properties depend on curing conditions, which take a few minutes at temperatures between 130°C to 200°C.

STORAGE

APS-PSA 101-10 should be kept tightly closed when not in use. Store away from direct sunlight in a cool area.

PACKAGING

APS-PSA 101-10 is supplied in 300 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

TYPICAL PROPERTIES

Appearance:	Clear, yellowish liquid
Viscosity (@25°C):	60,000 – 80,000 cp
Solid Content:	60%
Specific Gravity (@25°C):	0.98
Solvent:	Toluene 30%
	Xylene 10%

You may also be interested in . . .

- API-PSA 35

The information set forth herein is furnished free of charge and based on technical data that Advanced Polymer, Inc. believes to be reliable. It is intended for use by persons having technical skill at their own risk. Because conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. Nothing herein is to be taken as license to operate under or a recommendation to infringe any patents.

Revised May 10, 2010

APS-PSA 101-10

Section I Product Identity

Product Name: APS-PSA 101-10
Chemical Name/Family: Methylpolysiloxane 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:
Toluene	108-88-3		100 ppm 375 mg/m ³	150 ppm 560 mg/m ³	30
Xylene	1330-20-7		100 ppm 435 mg/m ³	150 ppm 655 mg/m ³	10

Section III Physical and Chemical Properties

Boiling Point: 230°F
Specific Gravity (H₂O=1): .98
Vapor Pressure: <30 mm Hg
Vapor Density (Air=1): 3.01
Percent Volatile by Weight: 40
Evaporation Rate (BuAc=1): NA
Solubility in Water: Not soluble
Appearance and Odor: Colorless, transparent, viscous liquid with solvent odor

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used): 48°F (Closed Cup)
Flammable Limits in Air (% by Volume): LEL: 1.4 UEL: 6.7
Extinguishing Media: Foam, Dry Chemical, CO₂
Special Fire Fighting Procedures: Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment.
Unusual Fire and Explosion Hazard: Adequate ventilation must be maintained to minimize accumulation of flammable solvents.

Section V Reactivity Data

Stability	Stable
Conditions to Avoid	Heat and sparks or ignition sources.
Incompatibilities	Avoid contact with strong oxidants, halogenated compounds and inorganic nitrates.
Hazardous Decomposition or By Products	Combustion may produce CO ₂ , CO and toxic vapors.
Hazardous Polymerization	May Not Occur

Section VI Health hazard Data

Primary Routes of Entry	Inhalation: YES	Dermal: YES	Ingestion: YES
Acute Health hazard	Toluene	LD50 (oral/rat) 636 mg/kg	
	Xylene	LD50 (oral/rat) 430 mg/kg	
Chronic Health Hazard	Toluene	May cause nervous disturbances	
	Xylene	May produce adverse effect on bone marrow	
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.
Ingestion	Although ingestion is unlikely, liquid may irritate upper digestive tract if swallowed.
Inhalation	Exposure to high vapor concentrations may cause eye and respiratory tract irritation, headache, dizziness, nausea, lack of coordination, drowsiness and loss of consciousness.

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. 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:

Turn off ignition sources. Soak up with 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 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	Required
	Mechanical	General
	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 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 COMMUNIUTY RIGHT-TO-KNOW ACT OF 1986 and of 40 CFR 371

CAS #	Chemical Name	Percent by Weight
108-88-3	Toluene	30
1330-20-7	Xylene	10

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL

Section XI Transportation Information

SHIPPING INFORMATION

Product Name	APS-PSA 101-10
Proper Shipping Name	Flammable Liquid, NOS, (contains Toluene) CAS# 108-88-3, 30%
Hazard Class	3
UN Number	UN1993
Packing Group	II
Label Requirements	Flammable Liquid

Hazard Ratings

Health 2

Flammability 4

Reactivity 0

Date Prepared October 19, 2005

Prepared By API

Date Revised May 10, 2010

Revised By API

THE INFORMATION AND RECOMMENDATIONS HEREIN, ARE TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. NO WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED.

TO THE CUSTOMERS OF ADVANCED POLYMER, INC.

All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, express or implied:

Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss of damage, direct, or consequential arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use. The user assumes all risk and liability whatsoever in connection therewith.

No statement or recommendation contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer. Since the manufacturer of the product described in this technical data sheet has no means of controlling the final use of the product by the consumer for the user, it is the responsibility of the immediate purchaser and any intermediate seller or sellers to inform the user of the purposes for which the product may be fit and suitable and of the properties of the product, including the precautionary measures which must be taken in order to ensure the safety of the user and of other third persons and property.

No statement made herein shall be taken as an authorization or inducement to practice any patented invention without appropriate license.