



ADVANCED POLYMER, INC.

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APS-705-100

APS-705-100 is a methyl phenyl modified silicone fluid. APS-705-100 offers outstanding thermal, moisture and chemical resistance, as well as excellent dielectric properties. APS-705-100 is well suited for low temperature applications. The working temperature range for APS-705-100 is -60°C to 200°C.

APPLICATIONS

- As a result of the excellent thermal stability, resistance to oxidation, and low volatility, APS-705-100 may be used as a high temperature heat transfer media, a lubricant for silicone rubber applications or a cosmetic additive for ultra violet protection.
- Appropriate diluents for APS-705-100 include aromatic hydrocarbons and chlorinated hydrocarbons.

STORAGE

When stored in a sealed container at temperatures between 5°C and 30°C, APS-705-100 fluid has a prolonged shelf life.

PACKAGING

APS-705-100 is available in 8 oz. samples and 440-lb. drums.

TYPICAL PROPERTIES

Appearance:	Colorless, odorless fluid
Refractive Index (@ 25°C)	1.425
Pour Point:	-65°C max
Viscosity (@ 25°C):	100 cstk
Flash point (Closed Cup):	315°C min
Specific Gravity (@ 25°C):	0.995
Surface Tension: (@ 25°C)	21.8 dyne/cm

Advanced Polymer, Inc.

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

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technical@advpolymer.com

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- APS-704

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Revised March 7, 2011

APS-705-100

Section I Product Identity

Product Name APS-705-100
Chemical Name/Family Phenyl-modified polydimethyl siloxane
CAS Registry
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 (H₂O=1) 1.0
Vapor Pressure Negligible
Vapor Density (Air=1) NA
Percent Volatile By Weight NA
Evaporation Rate (BuAc=1) <1
Solubility in Water Not soluble
Appearance and Odor Colorless, transparent liquid. Odorless.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used) 130°C (Open cup)
Flammable Limits in Air (% By Volume) ND
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 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 CO₂, CO and nitrous oxides.
Hazardous Polymerization May Not Occur

Section VI Health Hazard Data

Primary Routes of Entry	Inhalation: No	Dermal: Yes	Ingestion: Yes
Acute Health hazard	LD50 (Oral Rat) = >33 ml/kg		
Chronic Health Hazard	No information available		
Carcinogenicity			
NTP: No	IARC Monograph: No	OSHA Regulated: No	

Signs and Symptoms of Exposure:

Skin Contact	Prolonged or repeated contact with skin can cause defatting and drying of the skin resulting in irritation or dermatitis.
Eye Contact	Existing 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	No information available.

Medical Condition Generally Aggravated by Exposure

None known

Emergency First Aid Procedures

Skin	Immediately wash skin with soap and water. Wash contaminated clothing before reuse.
Eyes	Immediately flush eyes with plenty of water. Call a physician.
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:

Soak up with sawdust, 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	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	NIOSH approved respirators 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-705-100 is considered non-hazardous and is not regulated by DOT.

Hazard Ratings

Health	0
Flammability	1
Reactivity	0

Date Prepared October 18, 2005
Prepared By API
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Revised By API

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