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APS-704

APS-704 is a methyl phenyl modified silicone fluid. APS-704 offers outstanding thermal, moisture and chemical resistance, as well as excellent dielectric properties. APS-704 is well suited for high temperature applications. The working temperature range for APS-704 is -30°C to 250°C.

APPLICATIONS

- As a result of excellent thermal stability, resistance to oxidation, and low volatility APS-704 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-704 include aromatic hydrocarbons and chlorinated hydrocarbons.

STORAGE

Stored in a sealed container at temperatures between 5°C and 30°C, APS-704 fluid has a prolonged shelf life.

PACKAGING

APS-704 is available in 8 oz. samples and 440-lb. drums.

TYPICAL PROPERTIES

Appearance:	Clear, odorless fluid
Viscosity (@ 25°C):	400 cs
Ionic Nature:	Nonionic
Refractive Index (@ 25°C):	1.505
Specific Gravity (@ 25°C):	1.07
Flash point (Closed Cup):	>150°C
Max. Volatility (3 hrs/150°C):	<0.5%

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- APS-705

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Revised April 20, 2010

APS-704

Section I Product Identity

Product Name	APS-704
Chemical Name/Family	Phenyl-modified polydimethyl siloxane
CAS Registry	68083-14-7
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)	1.07
Vapor Pressure	Negligible
Vapor Density (Air=1)	NA
Percent Volatile By Weight	<1
Evaporation Rate (BuAc=1)	Negligible
Solubility in Water	Not Soluble
Appearance and Odor	Colorless transparent liquid. Odorless

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	200°C minimum (closed cup)
Flammable Limits in Air (% By Volume)	ND
Extinguishing Media	Foam, Dry Chemical, CO ₂
Special Fire Fighting Procedures:	Evacuate personnel to a safe area. Wear a 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 ₂ , CO or 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 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	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.

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 State, Local and EPA 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	Not required	
Ventilation	Local exhaust	Not required
	Mechanical	
	Special	
	Other	
Eye Protection	Safety glasses/goggles 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 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-704 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
 Date Revised April 20, 2010
 Revised By API

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