



ADVANCED POLYMER, INC.

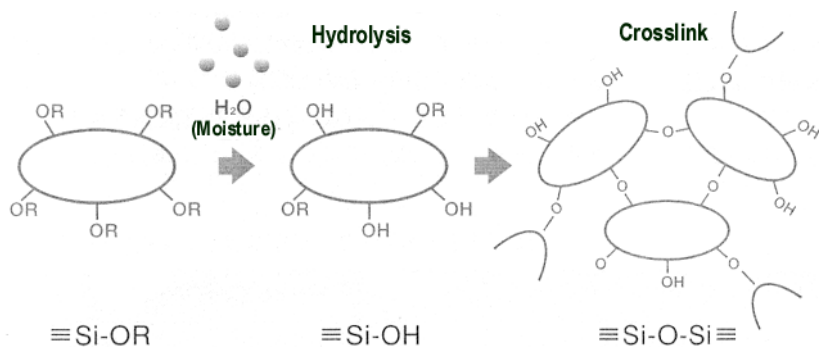
GET THE API ADVANTAGE . . .

APS-262/APS-294N

APS-262 and APS-294N Silicone Oligomers are moisture cure, solvent-free, low viscosity alkoxy oligomers that will provide a flexible, durable, protective coating on a variety of substrates. APS-Silicone Oligomers may also be blended with other resin systems to improve hardness and chemical resistance.

CHARACTERISTICS

- Produce hard, weather and chemical resistant films
- Solvent free (100% active).
- Hydrolyze with moisture and react with organic Oligomers that contain an active hydroxyl group
- Require the addition of a catalyst to obtain optimum film properties



PERFORMANCE DATA:

APS-262 and APS-294N require the addition of a catalyst to produce a hard chemical resistant film. Following is an example of the effect of catalyst and concentration on the properties of the cured film:

TYPICAL PROPERTIES

Appearance: Colorless-Light Yellow
Transparent Liquid

Active Content: 100%

APS-262

Organic Group: Methyl

Alkoxy Function: Methoxy

Alkoxy content: 45%

Viscosity (@ 25°C): 5 cs

Feature: Low molecular weight

APS-294N

Organic Group: Methyl/Phenyl

Alkoxy Function: Methoxy

Alkoxy content: 50%

Viscosity (@ 25°C): 20 cs

Feature: Room temperature cure

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APS-262/APS-294N

Resin: APS-262

Substrate: Steel

Coating Thickness: 1 mil

Method of Application: Meyer Rod

Dry/Cure Condition: Ambient (25°C) x 24 hours & 10 days

API-Catalyst	24 Hours x 25°C			10 Days x 25°C		
	MEK**	Hardness	Flexibility	MEK**	Hardness	Flexibility
0.5% Catalyst 4 [†]	100+	8H	Excellent	100+	9H	Excellent
0.5% Catalyst 5 [†]	20	9H	Excellent	25	9H	Excellent
1.0% Catalyst 5 [†]	76	9H	Excellent	95	9H	Excellent

[†]The pot-life of the silicone/catalyst mixture = 3 months minimum.

^{**}Double rub test

STORAGE

When stored in a sealed container at temperatures between 5°C and 30°C, APS-Silicone Oligomers have a prolonged shelf life.

PACKAGING

APS-262 and APS-294N are available in 8 oz. samples and 441 lb. drums.

You may also be
interested in . . .

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I want to know more!

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Revised July 6, 2010

APS-262

Section I Product Identity

Product Name	APS-262
Chemical Name/Family	Silicone Resin
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:
None					

Section III Physical and Chemical Properties

Boiling Point	NA
Specific Gravity	≈1.08
Vapor Pressure	NA
Vapor Density (Air=1)	ND
Percent Active	100
Evaporation Rate (BuAc=1)	ND
Solubility in Water	Insoluble
Appearance and Odor	Colorless to light yellow liquid.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	145°F
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	ND

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	No information available		
Chronic Health Hazard	No information available		
Carcinogenicity	This product does not contain any suspected human carcinogens.		
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 would irritate upper digestive tract if swallowed.
Inhalation	No information available.

Medical Condition Generally Aggravated by Exposure

No information available

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 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	Not required	
Ventilation	Local exhaust	Recommended
	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 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

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

Section XI Transportation Information

SHIPPING INFORMATION

APS-262 is classified non-hazardous and is not regulated by DOT.

Hazard Ratings

Health	1
Flammability	2
Reactivity	1

Date Prepared April 7, 2009
Prepared By API
Date Revised March 29, 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.

APS-294N

Section I Product Identity

Product Name	APS-294N
Chemical Name/Family	Silicone Resin
CAS Registry	Mixture
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:
None					

Section III Physical and Chemical Properties

Boiling Point	>60°C
Specific Gravity	0.96
Vapor Pressure	NA
Vapor Density (Air=1)	ND
Percent Active	100
Evaporation Rate (BuAc=1)	ND
Solubility in Water	Not miscible
Appearance and Odor	Clear to straw colored fluid.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	<60°F (closed cup)
Flammable Limits in Air (% By Volume)	NA
Extinguishing Media	Water spray, 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	Burning may produce toxic vapors, including carbon oxides, silicone dioxide, formaldehyde and metal oxides.

Section V Reactivity Data

Stability	Stable
Conditions to Avoid	Store in a well-ventilated place at temperatures below 95°F. Keep container tightly closed.
Incompatibilities	Avoid contact with strong oxidizing agents and acids. Aluminum at high temperatures.
Hazardous Decomposition or By Products	Combustion may produce carbon oxides, silicone dioxide, formaldehyde and metal oxides.
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	This product does not contain any suspected human carcinogens.		
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. Chemical protective gloves are recommended.
Eye Contact	Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. Safety glasses are recommended.
Ingestion	Although ingestion is unlikely, liquid would irritate upper digestive tract if swallowed.
Inhalation	Exposure to high vapor concentrations may cause eye and respiratory tract irritation, headache, dizziness, nausea, drowsiness and loss of consciousness.

Medical Condition Generally Aggravated by Exposure

No information available

Emergency First Aid Procedures

Eyes	Immediately flush eyes with plenty of water for 15 minutes. Seek medical attention.
Skin	Immediately wash skin with soap and water for 15 minutes. 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 EPA, State and Local regulations.

Section VIII Special Precautions

Precautions to be Taken in Handling and Storage:

Store at temperatures between 40°F (4.4°C) to 95°F (43.3°C). Protect from freezing. Store in a tightly closed container. Store in a well ventilated area. Store away from oxidizing agents and sources of heat. **Do not aerosolize this product. Agitate contents of container before using.**

Section IX Control Measures

Respiratory Protection	Protective mask for vapor concentrations above exposure limits	
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 respirator as needed	
Other Precautions	Wash hands after use.	

Section X SARA Title III

SECTION 313 SUPPLIER NOTIFICATION

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CAS #	Chemical Name	Percent by Weight

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Section XI Transportation Information

SHIPPING INFORMATION

Shipping Name:	Flammable liquids, n.o.s.
Hazard Technical Name:	Octamethylcyclotetrasiloxane, CAS # 556-67-2
Hazard Class:	3
UN Number:	UN1993
Packing Group:	II
Hazard Label:	Flammable Liquid

Hazard Ratings

Health	2
Flammability	3
Reactivity	0

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