



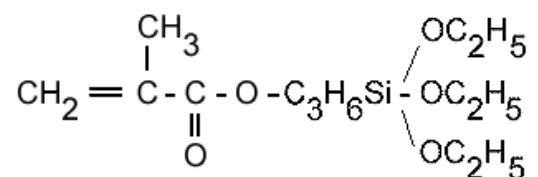
ADVANCED POLYMER, INC.

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AP-SILANE 71

AP-SILANE 71 is a γ -Methacryloxypropyl trimethoxy silane coupling agent . AP-SILANE 71 has both organic and inorganic reactivity. Due to its unique functionality AP-SILANE 71 will impart superior adhesion and strength properties.

CHEMICAL STRUCTURE



CHARACTERISTICS

- Improved adhesion.
- Increased composite wet and dry tensile and modulus.
- Increased flexural strength.
- Increased wet and dry compressive strength.

APPLICATION

AP-SILANE 71 is recommended for unsaturated polyester and thermo-set composites.

PACKAGING

AP-SILANE 71 is available in 4 oz. samples and 441-lb. drums.

Advanced Polymer, Inc.

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I want to know more!

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TYPICAL PROPERTIES

Appearance:	Clear liquid
Molecular Weight:	248.4
Ionic Nature:	Nonionic
Specific Gravity (@ 25°C):	1.04
Purity:	>98.0%
Refractive Index (@ 25°C):	1.429
Minimum Coverage Area:	314 m ² /g

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Revised November 12, 2009

AP-SILANE 71

Section I Product Identity

Product Name: AP-SILANE 71
Chemical Name/Family: γ -Methacryloxypropyl trimethoxy silane
CAS Registry: #2530-85-0
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	γ -Methacryloxypropyl trimethoxy silane			
CAS # 2530-85-0	USOS:	TWA:	STEL :	PERCENT: >98

Section III Physical and Chemical Properties

Boiling Point	N/A
Specific Gravity (H ₂ O=1)	1.04
Vapor Pressure	<0.1
Vapor Density (Air=1)	>1
Percent Volatile By Weight	N/A
Evaporation Rate (BuAc=1)	<1
Solubility in Water	
Appearance and Odor	Light straw, transparent liquid.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	210°F (Closed Cup)
Flammable Limits in Air (% By Volume)	N.D.
Extinguishing Media	Foam, Dry Chemical, 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	LD50 (oral/rat) 2.02—2.43 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. May cause severe irritation.
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 may irritate upper digestive tract if swallowed. May cause severe irritation.
Inhalation	May cause severe irritation.

Medical Condition Generally Aggravated by Exposure

Emergency First Aid Procedures

Eyes	Immediately flush eyes with plenty of water. Call a physician.
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 sources. Soak up with sand, oil dry or other absorbent material.

Waste Disposal Method As in accordance with EPA 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.****

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

AP-SILANE 71 is not regulated by DOT.

Hazard Ratings

Health 1

Flammability 1

Reactivity 1

Date Prepared October 18, 2005

Prepared By API

Date Revised October 27, 2009

Revised By API

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