

AP-SILANE 71

Section 1. Product and Company Identification

Product Name:	AP-SILANE 71
Chemical Name/Family:	γ -Methacryloxypropyl trimethoxy silane
CAS No.:	2530-85-0
Product Use:	Coupling Agent
Restrictions:	For Industrial Use Only
Company:	Advanced Polymer.
Address:	400 Paterson Plank Road Carlstadt, NJ 07072 U.S.A.
Telephone:	201-933-0600
Fax:	201-933-8442
24 Hour Emergency Number	800-424-9300
24 Hour Chemtrec Number	800-424-9300

Section 2. Hazards Identification

GHS Classification:

Physical Hazards	Not classified
Health Hazards	Not classified
Environmental Hazards	Not classified

GHS Label:

Symbol: No symbol required under GHS.

Signal Word: No signal word required under GHS.

Hazard Classification:

Hazard Statement:

No hazard statement required under GHS.

Precautionary Statement:

Prevention

No prevention statement required under GHS.

Response

No response statement required under GHS however refer to Section 4 for first aid measures.

Storage

No storage statement required under GHS however refer to Section 7 for current storage conditions.

Disposal

No disposal statement required under GHS however refer to Section 13 for current disposal considerations.

Other Hazards: No information available.

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
γ-Methacryloxypropyl trimethoxy silane	2530-85-0	>98

Section 4. First Aid Measures

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Eye Contact: Flush eyes with water as a precaution.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5. Firefighting Measures

Fire and Explosion Hazard: None.

Fire Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical, CO2

Unsuitable Extinguishing Media: None

Specific Hazards in Case of Fire: Move container from fire area if it can be done without risk. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Cool container with water spray.

Special Fire Fighting Information: Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment.

Section 6. Accidental Release Measures

Personal Precautions: Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form concentrations. Vapours can accumulate in low areas.

Protective Equipment: Wear appropriate personal protective equipment (e.g. safety goggles, protective gloves, dust respirators)

Environmental Precautions: Prevent further leakage or spillage if safe to do so.

Methods and Materials for Containment and Cleaning up: Turn off ignition sources. Soak up with sand, oil dry or other absorbent material and place in a chemical waste container. Use only non-sparking tools.

Section 7. Handling and Storage

Handling Conditions: Avoid inhalation of vapor or mist. Take measures to prevent the build-up of electrostatic charge. (Ground / bond container and receiving equipment. Use only clean, dry utensils in handling. Use spark proof tools and equipment). Wash thoroughly after handling. Use only clean, dry, utensils in handling.
Agitate contents of container before using

Storage Conditions: Store in a well-ventilated place. Keep container tightly closed. Moisture sensitive. Handle and store under inert gas. Heat sensitive. *** Agitate contents of container before using ***

Section 8. Exposure Control/Personal Protection

Exposure Limits:	ACGIH TLV-TWA : 200 ppm; STEL 250ppm (skin) OSHA PEL : 8H TWA 200ppm (Methanol): decomposed product.
Appropriate engineering controls:	LOCAL EXHAUST: Recommended MECHANICAL (general): Adequate ventilation system SPECIAL: Unknown OTHER: Unknown
Personal protective equipment:	
Respiratory Protection:	Not required.
Hand Protection:	Rubber or plastic gloves should be worn
Eye Protection:	Safety glasses with side shields should be worn
Skin and Body Protection:	Impervious clothing.
Hygiene Measures:	Wash hands thoroughly after handling.

Section 9. Physical and Chemical Properties

Physical State:	Liquid
Color:	Light straw, transparent
Odor:	Slight odor
Odor Threshold:	No data available
pH:	N.A.
Specific Gravity (77°F):	1.04
% Volatile by Weight:	100
Melting Point:	No data available
Freezing Point:	No data available
Boiling point:	255°C
Flash Point:	125°C (257°F) – closed cup
Evaporation Rate (BuAc=1):	<1
Flammability:	No data available
Vapor Pressure (mmHg):	<10mmHg (25C)
Vapor Density (Air=1):	8.6
Solubility:	Insoluble in water (Hydrolyzed with water)
Partition Coefficient:	No data available
Auto-ignition Temperature:	No data available
Viscosity:	No data available
Decomposition Temperature:	No data available

Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressure
Hazardous Polymerization:	May not occur
Conditions to Avoid:	None
Incompatible Materials:	Water, acids or alkalis. Strong oxidizing materials.
Hazardous Decomposition Products:	Water, acids or alkalis can cause methanol. Thermal breakdown of this

product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide.

Section 11. Toxicological Information

Primary Routes of Entry:

Eye:	Yes	Skin:	Yes	Inhalation:	No	Ingestion:	Yes
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Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion:	Although ingestion is unlikely, liquid may irritate upper digestive tract if swallowed. May be harmful if swallowed.
Skin:	May be harmful if absorbed through skin. May cause skin irritation.
Eyes:	May cause eye irritation.

Signs and Symptoms of Exposures: No information available

Acute Toxicity:
 LD50 (Oral/Rat): 10ml/kg
 LD50 (Oral/Rat): 5.628g/kg [Methanol; decomposed product]
 LC50 (Inhalation/Rat): 64000ppm/4Hr
 [Methanol; decomposed product]

Chronic Toxicity: May cause conjunctivitis, dizziness, sleeplessness, and gastrointestinal and optical disturbances [Methanol; decomposed product].

Skin Irritation:
 SKIN-RABBIT: 500mg/24Hr MILD
 SKIN-RABBIT: 20mg/24Hr MODERATE
 [Methanol; decomposed product]

Eye Irritation:
 EYE-RABBIT: 500mg/24Hr MILD
 EYE-RABBIT: 100mg/24Hr MODERATE
 [Methanol; decomposed product]

Respiratory or Skin Sensitization: No information available

Mutagenicity: Negative (Bacteria)

Carcinogenicity:

IARC:	No	NTP:	No	OSHA:	No
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Section 12. Ecological Information

Ecotoxicity (Aquatic and Terrestrial):	No information available
Bioaccumulative Potential	No information available
Mobility in Soil:	No information available
PBT and vPvB Assessment:	No information available
Other Adverse Effects:	Causes easily hydrolysis in water or atmosphere.

Section 13. Disposal Considerations

Product:	Can be burned in a chemical incinerator equipped with an afterburner and scrubber. Do not dispose the emptied container unlawfully. Observe all federal, state, and local laws.
Disposing of Contaminated Packaging:	Do not dispose of the emptied container unless the contents have been completely removed and container has been flushed with a clean neutral

solvent and then dried up. Contact a licensed professional waste disposal service to dispose of this material.

Section 14. Transport Information

Land Transport (DOT): Not regulated

UN Number:

UN Proper Shipping Name:

Technical Shipping Name:

Transport Hazard Class:

Packing Group:

Sea Transport (IMDG): Not Regulated

UN Number:

UN Proper Shipping Name:

Technical Shipping Name:

Transport Hazard Class:

Packing Group:

Air Transport (IATA): Not regulated

UN Number:

UN Proper Shipping Name:

Technical Shipping Name:

Transport Hazard Class:

Packing Group:

Environmental Hazards (e.g., Marine pollutant): None

Section 15. Regulatory Information

International Inventories:

TSCA (USA):	Listed
DSL (Canada):	No information available
ENCS (Japan)	No information available
EINECS (Europe):	Listed
IECSC (China):	No information available
KECL (Korea):	No information available
PICCS (Philippines):	No information available
AICS (Australia):	No information available
ERMA (New Zealand):	No information available

Federal Regulations:

SARA 313:	None
SARA 311/312:	None
Clean Water Act:	No information available
Clean Air Act, Section 112 HAPs (See 40CFR61):	No information available

State Regulations:

Massachusetts Right to Know Components:	No information available
New Jersey Right to Know Components:	No information available

Pennsylvania Right to Know Components:	No information available
California Proposition 65:	Propylene oxide, (CAS # 75-56-9), <0.1 % Methanol (impurity), (CAS # 67-56-1), <0.1 % Toluene (impurity) (CAS # 108-88-3), <0.1 %

Section 16. Other Information

WHMIS Classification: No information available

HMIS Rating:

Health Hazard 1

Flammability: 1

Physical Hazard: 0

Personal Protection Equipment: E

NFPA Rating

Health Hazard: 1

Fire Hazard: 1

Reactivity Hazard: 1

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