

AP-SILANE 98

Section 1. Product and Company Identification

Product Name:	AP-SILANE 98
Chemical Name/Family:	n-octyltriethoxy-silane
CAS No.:	2943-75-1
Product Use:	Hydrophobing Agent
Restrictions:	For Industrial Use Only
Company:	Advanced Polymer, Inc.
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:

Flammable liquids	Category 4
Skin corrosion/ irritation	Category 2
Serious eye damage/eye irritation	Category 2A

GHS Label:



Pictogram:

Signal Word: Warning

Hazard Classification:

Hazard Statements:

- Causes skin irritation.
- Causes serious eye irritation.
- May cause respiratory irritation.

Precautionary Statements:

- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash skin thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/eye protection/face protection.
- IF ON SKIN: Wash with plenty of soap and water
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Call a POISON CENTER or doctor/physician if you feel unwell.

Specific treatment (see supplemental first aid instructions on this label.)
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container to an approved waste disposal plant

Response

In case of fire: Use foam, dry chemical CO₂ for extinction.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
n-octyltriethoxy-silane	2943-75-1	>98

Section 4. First Aid Measures

Skin Contact: Immediately wash skin with soap and water. Wash contaminated clothing before reuse.
Eye Contact: Immediately flush eyes with plenty of water. Seek medical attention.
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.
Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

Section 5. Firefighting Measures

Fire and Explosion Hazard: Severe fire hazard. Moderate explosion hazard. The vapor is heavier than air. Vapors or gases may ignite at distant ignition sources and flash back.
Fire Extinguishing Media: For small fires, use media such as foam, dry chemical CO₂. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
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 at temperatures below 120°F. Keep container tightly closed. Moisture sensitive. Store under inert gas.

Section 8. Exposure Control/Personal Protection

Exposure Limits:	Contains no substances with occupational exposure limit values.
Appropriate engineering controls:	Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Personal protective equipment:	
Respiratory Protection:	Use respirators and components tested and approved under appropriate government standards such as NIOSH.
Hand Protection:	Chemical resistant gloves.
Eye Protection:	Safety glasses should be worn.
Skin and Body Protection:	Wear appropriate chemical resistant clothing.
Hygiene Measures:	Wash hands thoroughly after handling.

Section 9. Physical and Chemical Properties

Physical State:	Liquid
Color:	Colourless
Odor:	Slight odor
Odor Threshold:	No information available
pH:	No information available
Specific Gravity (77°F):	0.875
% Volatile by Weight:	100
Melting Point:	No information available
Freezing Point:	No information available
Boiling point:	84 - 85°C (183 - 185°F)

Flash Point:	100°C (212°F) – closed cup
Evaporation Rate (BuAc=1):	No information available
Flammability:	No information available
Vapor Pressure (mmHg):	No information available
Vapor Density (Air=1):	No information available
Solubility:	No information available
Partition Coefficient:	No information available
Auto-ignition Temperature:	No information available
Viscosity:	No information available
Decomposition Temperature:	No information available

Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressure
Hazardous Polymerization:	May not occur
Conditions to Avoid:	Avoid strong oxidizing agents, acids, bases. Avoid extreme temperature and direct sunlight. Hydrolyzed with water or moisture and generates ethanol.
Incompatible Materials:	Oxidizing materials
Hazardous Decomposition Products:	Thermal decomposition products: Oxides of carbon

Section 11. Toxicological Information

Primary Routes of Entry:

Eye:	Yes	Skin:	Yes	Inhalation:	Yes	Ingestion:	Yes
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Potential Health Effects:

Inhalation	May cause slight irritation to mucous membranes and upper respiratory tract.
Ingestion:	Low-harmful
Skin:	May cause slight skin irritation
Eyes:	Causes eye irritation

Signs and Symptoms of Exposures: No information available. In the event of direct contact of the liquid on skin, eyes, or in the lungs, seek medical attention.

Acute Toxicity:
LD50 (Oral/Rat) : No Data Available
LD50 (Oral/Rat) : No Data Available
LC50 (Inhalation/Rat) : No Data Available

Chronic Toxicity: May cause conjunctivitis, dizziness, sleeplessness and gastrointestinal and optical disturbances (ethanol – decomposed product).

Respiratory or Skin Sensitization: No information available

Mutagenicity: No information available

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:	No information available

Section 13. Disposal Considerations

Product:	Can be burned in chemical incinerator equipped with afterburner and scrubber but exert extra care in igniting as this product is very flammable. Do not dump into sewers, on the ground or into any body of water. Do not dispose 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 Dangerous Goods
Sea Transport (IMDG):	Not Dangerous Goods
Air Transport (IATA):	Not Dangerous Goods
Environmental Hazards (e.g., Marine pollutant):	None

Section 15. Regulatory Information

International Inventories:	
TSCA (USA):	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
DSL (Canada):	All chemical substances in this material are included on or exempted from the DSL. All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
ENCS (Japan)	No information available
EINECS (Europe):	All ingredients listed or exempt.
IECSC (China):	All ingredients listed or exempt.
KECL (Korea):	All ingredients listed, exempt or notified.
PICCS (Philippines):	All ingredients listed or exempt.
AICS (Australia):	All ingredients listed or exempt.
ERMA (New Zealand):	No information available
Federal Regulations:	
SARA 313:	None
SARA 311/312:	Chronic Health Hazard
Clean Water Act:	No information available
Clean Air Act, Section 112 HAPs (See 40CFR61):	No information available
State Regulations:	
Massachusetts Right to Know Components:	None

New Jersey Right to Know Components: Triethoxoctylsilane : CAS No. 2943-75-1
Pennsylvania Right to Know Components: Triethoxoctylsilane : CAS No. 2943-75-1
California Proposition 65: None

Section 16. Other Information

WHMIS Classification: Class B, Division 3.
Class D, Division 2, Subdivision A.
Class D, Division 2, Subdivision B.

HMIS Rating:

Health Hazard 1
Chronic Health Hazard *
Flammability: 1
Physical Hazard: 0

NFPA Rating

Health Hazard: 0
Fire Hazard: 1
Reactivity Hazard: 0

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