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 Carlsbadt, 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

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-octyltriethoxy-silane</td>
<td>2943-75-1</td>
<td>&gt;98</td>
</tr>
</tbody>
</table>

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

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### Section 10. Stability and Reactivity

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

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### Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Primary Routes of Entry:</th>
<th>Eye: Yes</th>
<th>Skin: Yes</th>
<th>Inhalation: Yes</th>
<th>Ingestion: Yes</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Potential Health Effects:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation:</td>
</tr>
<tr>
<td>Ingestion:</td>
</tr>
<tr>
<td>Skin:</td>
</tr>
<tr>
<td>Eyes:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signs and Symptoms of Exposures:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available. In the event of direct contact of the liquid on skin, eyes, or in the lungs, seek medical attention.</td>
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<table>
<thead>
<tr>
<th>Acute Toxicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 (Oral/Rat): No Data Available</td>
</tr>
<tr>
<td>LD50 (Oral/Rat): No Data Available</td>
</tr>
<tr>
<td>LC50 (Inhalation/Rat): No Data Available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chronic Toxicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>May cause conjunctivitis, dizziness, sleeplessness and gastrointestinal and optical disturbances (ethanol – decomposed product).</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Respiratory or Skin Sensitization:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Mutagenicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Carcinogenicity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC: No</td>
</tr>
<tr>
<td>NTP: No</td>
</tr>
<tr>
<td>OSHA: No</td>
</tr>
</tbody>
</table>

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### Section 12. Ecological Information

<table>
<thead>
<tr>
<th>Ecotoxicity (Aquatic and Terrestrial):</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
</tr>
</tbody>
</table>
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

Date Prepared ......................... May 12, 2014
Prepared By ............................ Advanced Polymer, Inc.
Date Revised ........................... December 29, 2016
Revised By ............................... Advanced Polymer, Inc.

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