

AP-SILANE 30

Section 1. Product and Company Identification

| | |
|--------------------------|--|
| Product Name: | AP-SILANE 30 |
| Chemical Name/Family: | N-propyl trimethoxy silane |
| CAS No.: | 1067-25-0 |
| Product Use: | Coupling 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 3 |
| Serious eye damage/eye irritation | Category 2A |

GHS Label:



Pictogram:

Signal Word: Warning

Hazard Classification:

Hazard Statement:

Flammable liquid and vapor.
Causes serious eye irritation.

Precautionary Statement:

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/.../equipment.
Use non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/eye protection/face protection.
Wash thoroughly after handling.

Response:

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents/container to an approved waste disposal plant.

Section 3. Composition/Information on Ingredients

| Ingredients | CAS No. | Percent |
|--------------------------|-----------|---------|
| N-Propyltrimethoxysilane | 1067-25-0 | 100% |

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.
Ingestion: Wash out mouth with water provide a person is conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

Section 5. Firefighting Measures

Fire and Explosion Hazard: Vapors form explosive mixtures with air. Vapors may travel considerable distance to source of ignition and flash back.
Fire Extinguishing Media: Foam, dry chemical, or carbon dioxide.
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, respirators)
Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and Materials for Containment and Cleaning up: Turn off ignition sources. Contain spillage and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

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. Avoid contact with eyes and skin. Avoid contact with water or moisture. **Agitate contents of container before using** |
| Storage Conditions: | Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, sparks, and flames. Do not lay the container on its side. *** Agitate contents of container before using *** |

Section 8. Exposure Control/Personal Protection

| | |
|--|---|
| Exposure Limits: | ACGIH TLV-TWA : 200ppm; STEL 250ppm (Skin), OSHA PEL : 8H TWA 200PPM (Methanol;decomposed product) |
| Appropriate engineering controls: | Provide an emergency eye wash fountain and quick drench shower in the immediate work area. |
| Personal protective equipment: | |
| Respiratory Protection: | Recommended. |
| 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: | Colorless, transparent |
| Odor: | Slight odor |
| Odor Threshold: | No information available |
| pH: | N.A. |
| Specific Gravity (25°F): | 0.93 |
| % Volatile by Weight: | 100 |
| Melting Point: | No information available |
| Freezing Point: | No information available |
| Boiling point: | 142°C (287°F) |
| Flash Point: | 36°C (96.8°F) – closed cup |
| Evaporation Rate (BuAc=1): | >1 |
| Flammability: | No information available |
| Vapor Pressure (mmHg): | <30mmHg (25°C) |
| Vapor Density (Air=1): | 5.6 |
| Solubility: | Insoluble in water (Hydrolyzed with water) |
| 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 heat, flames, sparks and other sources of ignition. Avoid extreme temperature and direct sunlight. Hydrolyzed with water but no hazard. |
| Incompatible Materials: | Water, acids, or alkalis |
| Hazardous Decomposition Products: | Methanol (Flammable and Poisonous liquids) |

Section 11. Toxicological Information

Primary Routes of Entry:

| | | | | | | | |
|-------------|-----|--------------|-----|--------------------|-----|-------------------|-----|
| Eye: | Yes | Skin: | Yes | Inhalation: | Yes | Ingestion: | Yes |
|-------------|-----|--------------|-----|--------------------|-----|-------------------|-----|

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 serious eye irritation |

Signs and Symptoms of Exposures: No information available.

Acute Toxicity: 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).

Respiratory or Skin Sensitization: No information available

Mutagenicity: No information available

Carcinogenicity:

| | | | | | |
|--------------|----|-------------|----|--------------|----|
| IARC: | No | NTP: | No | OSHA: | No |
|--------------|----|-------------|----|--------------|----|

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):

| | |
|--------------------------|----------------------------|
| UN Number: | 1993 |
| UN Proper Shipping Name: | Flammable liquids, N.O.S. |
| Technical Shipping Name: | (N-propyltrimethoxysilane) |
| Transport Hazard Class: | 3 |
| Packing Group: | III |

Sea Transport (IMDG):

| | |
|--------------------------|----------------------------|
| UN Number: | 1993 |
| UN Proper Shipping Name: | Flammable liquid, N.O.S. |
| Technical Shipping Name: | (N-propyltrimethoxysilane) |
| Transport Hazard Class: | 3 |
| Packing Group: | III |

Air Transport (IATA):

| | |
|--------------------------|----------------------------|
| UN Number: | 1993 |
| UN Proper Shipping Name: | Flammable liquid, N.O.S. |
| Technical Shipping Name: | (N-propyltrimethoxysilane) |
| Transport Hazard Class: | 3 |
| Packing Group: | III |

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

Section 15. Regulatory Information

International Inventories:

| | |
|----------------------|--------------------------|
| TSCA (USA): | Listed |
| DSL (Canada): | Listed |
| ENCS (Japan) | Listed |
| EINECS (Europe): | No information available |
| 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: | No information available |
| 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: None

Section 16. Other Information

WHMIS Classification: No information available

HMIS Rating:

| | |
|--------------------------------|---|
| Health Hazard | 1 |
| Flammability: | 3 |
| Physical Hazard: | 0 |
| Personal Protection Equipment: | E |

NFPA Rating

| | |
|--------------------|---|
| Health Hazard: | 1 |
| Fire Hazard: | 3 |
| Reactivity Hazard: | 1 |

Date Prepared August 9, 2005
Prepared By Advanced Polymer, Inc.
Date Revised December 29, 2016
Revised By Advanced Polymer, Inc.

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.