

APS-236 Emulsion

Section 1. Product and Company Identification

Product Name: **APS-236 Emulsion**
Chemical Name/Family: Modified Silane/Siloxane Emulsion
CAS No.: Mixture
Product Use: Water Repellent for Architectural Products
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:

Eye Irritation	Not Classified
Skin Irritation	Not Classified
Acute Toxicity, Oral	Category 5
Respiratory Sensitization	Not Classified

GHS Label:

Symbol: None
Signal Word: Warning

Hazard Classification:

Hazard Statement: May be harmful if swallowed
Precautionary Statement: Call a POISON CENTER/doctor/physician if you feel unwell.

Potential Health Effects:

Prolonged inhalation of vapor or mist may cause headache, nausea and irritation of the nose, throat and lungs. Inhalation of decomposition products in high concentration may cause shortness of breath (lung edema). May cause eye irritation. May cause tearing, redness or discomfort. May cause skin irritation. May cause irritation of the digestive tract.

Section 3. Hazardous Composition/Information on Ingredients

Ingredients	CAS No.	Percent (%)
Silicic acid, diethoxyoctylsilyl trimethylsilyl ester	216689-57-5	15.0 – 35.0
Triethoxyoctylsilane	2943-75-1	10.0 – 30.0
Water	7732-18-5	50.0 – 70.0

Section 4. First Aid Measures

Skin Contact:	Wash affected areas with plenty of water and soap for several minutes. Call a physician if irritation develops.
Eye Contact:	First rinse eyes with water. Remove any contact lenses, and continue washing with running water for at least 15 minutes. Call a physician if irritation develops.
Inhalation:	If inhaled, remove the affected individual immediately to fresh air. Call a physician if respiratory irritation develops or if breathing becomes difficult.
Ingestion:	If swallowed seek medical attention immediately and show the doctor packing or label. Do not induce vomiting unless directed to do so by medical personnel. Do not give anything to an unconscious or convulsing person.

Section 5. Firefighting Measures

Fire and Explosion Hazard:	The product itself will flash but not sustain combustion. Hydrolyzes on contact with moisture releasing ignitable vapors. Hazardous decomposition products formed under fire conditions. Hazardous combustion products: Carbon dioxide, silicon dioxide, nitrogen oxides, carbon monoxide and other hazardous decomposition products may be formed.
Fire Extinguishing Media:	Use alcohol-resistant foam, dry chemical, carbon dioxide, or water in large amounts for surrounding fire.
Unsuitable Extinguishing Media:	None known.
Thermal Decomposition:	To avoid thermal decomposition, do not overheat. Thermal decomposition can lead to release of irritating gases and vapors.
Special Fire Fighting Information:	Evacuate personnel to safe areas. Wear self-contained breathing apparatus and appropriate full protective equipment. Move containers from area of the fire if this can be done without risk. Cool fire-exposed containers with water. Do not allow run-off from fire-fighting to enter drains or water courses.

Section 6. Accidental Release Measures

Personal Precautions:	Evacuate personnel to safe area. Ensure cleanup is done only by trained personnel. Material can create slippery conditions. Avoid contact with eyes and skin. Avoid inhaling mists and vapours.
Protective Equipment:	Wear personal protective equipment. Ventilate area and exhaust vapours.
Environmental Precautions:	Do not discharge to streams, ponds, lakes or sewers. Avoid subsoil penetration.
Methods and Materials for Containment and Cleaning up:	Soak up with sawdust, sand, oil dry or other absorbent material. Pick up and transfer to properly labelled containers. Do not flush away with water.

Section 7. Handling and Storage

Handling Conditions:	Avoid contact with skin, eyes and clothing. Do not breathe vapors, mist or gas. Wash hands thoroughly after handling. Do not spray near open flame or heated surface. Agitate thoroughly before use. Avoid formation of aerosols.
Storage Conditions:	Keep container tightly closed in a dry, cool and well-ventilated place with temperatures 0°C - 40°C. Keep away from heat, and sunlight. ***Protect from freezing.***

Section 8. Exposure Control/Personal Protection

Exposure Limits:	None established.
Appropriate engineering	Adequate ventilation must be used during application. Use suitable local

controls: exhaust to remove mists or vapors during spray or other applications.

Personal protective equipment:

Respiratory Protection: Wear respirator where spraying or vaporizing occurs. A NIOSH approved air purifying respirator is recommended if overexposure to dusts, mists, or vapors could occur.

Hand Protection: Wear protective gloves.

Eye Protection: Wear safety glasses with side shields or goggles.

Skin and Body Protection: Rubber apron, boots or coveralls as necessary to prevent skin contact.

Hygiene Measures: An eyewash and safety shower should be nearby and ready for use.

Section 9. Physical and Chemical Properties

Physical State: Liquid Emulsion

Color: Off white to light yellow

Odor: Slight

Odor Threshold: N.D.

pH: ~ 5.0 – 6.0

Specific Gravity (77°F): 0.995

% Volatile by Weight: 60.0

Melting Point: N.D.

Freezing Point: N.D.

Boiling point: >100°C (>212°F)

Flash Point: >212°F/>100°C

Evaporation Rate (BuAc=1): N.D.

Flammability: N.D.

Explosion Limits: (lower) N/D, (upper) N/D

Vapor Pressure (mmHg): N.D.

Vapor Density (Air=1): N.D.

Solubility (water): Dilutable

Viscosity: N.D.

Thermal Decomposition Temperature: N.D.

Section 10. Stability and Reactivity

Chemical Stability: Stable under normal temperature and pressure.

Hazardous Polymerization: None

Conditions to Avoid: Do not overheat to prevent from thermal decomposition. PROTECT FROM FREEZING

Incompatible Materials: Oxidizers, acids, alkalis. Reaction causes the formation of ethanol.

Hazardous Decomposition Products: In case of fire situation carbon monoxide, carbon dioxide ethanol and other hazardous decomposition products may be formed.

Section 11. Toxicological Information

Primary Routes of Entry:

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

Potential Health Effects:

Inhalation: Prolonged inhalation may cause respiratory irritation.
 Ingestion: May cause irritation to the digestive tract.
 Skin: No significant irritation expected from single short-term exposure.
 Eyes: May cause eye irritation.

Signs and Symptoms of Exposures:

Acute Toxicity: Yes
Chronic Toxicity: Yes
Mutagenicity: No information available
Carcinogenicity: No carcinogenic ingredients. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

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: As in accordance with EPA, state and local regulations. Do not dump this product into sewers, on the ground or into any body of water. Dispose according to State and Federal Laws.
Disposing of Contaminated Packaging: Treat as unused product as above.

Section 14. Transport Information

US DOT: APS-236 Emulsion is and not regulated for transportation by DOT. Protect from freezing, when exposed to temperatures approaching 0°C (32°F) or below.
Transport by sea IMDG-Code: Not regulated for transport.
Air transport ICA-TI/IATA-DGR: Not regulated for transport.

Section 15. Regulatory Information

TSCA Inventories: This material and its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.
Federal Regulations:

SARA 313 (Toxic Chemicals): None present in regulated quantities

SARA 311/312 (Hazard Class):

Acute: Yes
Chronic: Yes
Fire: No
Pressure: No
Reactive: No

SARA 302 (Extremely Hazardous Substances): None

Clean Water Act: No information available

Clean Air Act, Section 112 HAPs (See 40CFR61): No information available

State Regulations:

New Jersey Right to Know Components:

CAS NUMBER	WT%	COMPONENTS NAME
7732-18-5	50.0 – 70.0	Water
216689-57-5	15.0 – 35.0	Silicic acid, diethoxyoctylsilyl trimethylsilyl ester
2943-75-1	10.0 – 35.0	Triethoxyoctylsilane

Pennsylvania Right to Know Components: No listed components.

CAS NUMBER	WT%	COMPONENTS NAME
7732-18-5	50.0 – 70.0	Water
216689-57-5	15.0 – 35.0	Silicic acid, diethoxyoctylsilyl trimethylsilyl ester
2943-75-1	10.0 – 35.0	Triethoxyoctylsilane

California Proposition 65: None

Section 16. Other Information

WHMIS Classification: No information available

HMIS Rating:

Health Hazard 2
Flammability: 1
Reactivity: 1
Personal Protection Equipment: C

Date Prepared March 24, 2015
Prepared By Advanced Polymer, Inc.
Date Revised December 27, 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.