

## APS-222

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### Section 1. Product and Company Identification

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Product Name:	<b>APS-222</b>
Chemical Name/Family:	Reactive organo-modified silicone fluid
CAS No.:	Mixture
Product Use:	Water Repellent
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

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### Section 2. Hazards Identification

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#### GHS Classification:

Hazard Class	Category
Flammable liquids	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 1
Reproductive toxicity	Category 2

#### GHS Label:



Symbol:

Signal Word: Danger

#### Hazard Classification:

#### Hazard Statement:

- Combustible liquid
- Causes skin irritation
- Causes serious eye damage
- Suspected of damaging fertility or the unborn child

Precautionary Statement:

Prevention

Keep away from heat, hot surfaces, sparks, open flame, and other ignition sources. No smoking.  
 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 Wash hands and contaminated skin thoroughly after handling. Do not touch eyes.  
 Obtain, read, and follow all safety instructions before use.

#### Response

In case of fire: Use foam, powder and carbon dioxide (CO<sub>2</sub>) to extinguish.  
 IF ON SKIN: Wash with plenty of water and soap.  
 Specific treatment (see supplemental first aid instructions on this SDS).  
 If skin irritation occurs: Get medical help.  
 Take off contaminated clothing and wash it before reuse.  
 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Get medical help.  
 IF exposed or concerned, get medical advice.

#### Storage

Store in a well-ventilated place.  
 Store locked up.

#### Disposal

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

**Other Hazards:** None

### Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Modified organopolysiloxane	Trade secret	≥99
Octamethylcyclotetrasiloxane	556-67-2	≤1.0

### Section 4. First Aid Measures

**Skin Contact:** Remove contaminated clothing and shoes. Wash contact areas with soap and water.

**Eye Contact:** In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

**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. Rinse mouth thoroughly.

### Section 5. Firefighting Measures

**Specific Hazards in Case of Fire:**

<b>Fire Extinguishing Media:</b>	Foam. Powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable Extinguishing Media:</b>	Do not use solid water jet as an extinguisher, as this will spread the fire.
<b>Special Protective Equipment and Precaution for Firefighters:</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus. Move containers from fire area if can do so without risk.
<b>Unusual Fire &amp; Explosion Hazards:</b>	Water spray should be used to cool containers.

## Section 6. Accidental Release Measures

<b>Personal Precautions:</b>	Handle substance with care/standard hygiene procedures.
<b>Protective Equipment:</b>	Wear appropriate protective equipment.
<b>Environmental Precautions:</b>	Collect spillage. Do not discharge into drains, water courses or onto the ground. Explosive; mass explosion hazard.
<b>Methods and Materials for Containment and Cleaning up:</b>	Contain spill or leak. Scrape up with cardboard or rag and place in container.

## Section 7. Handling and Storage

<b>Handling Conditions:</b>	Avoid contact with eyes and prolonged or repeated contact with skin. Avoid contact with acidic, basic, or oxidizing materials. Keep out of reach of children. ***Agitate contents of container before using***
<b>Storage Conditions:</b>	Keep container closed when not in use. Vent the container properly to eliminate internal pressure. Store in a cool place away from heat, sparks and flames. Do not lay the container on its side. <b>*****Information about the emptied container: *****</b> Do not re-use this container. Keep away from heat, sparks and flame. Do not puncture or cut this container, and do not weld near this container.

## Section 8. Exposure Control/Personal Protection

<b>Exposure Limits:</b>	None of the components have assigned exposure limits.
<b>Appropriate engineering controls:</b>	No specific recommendations.
<b>Personal protective equipment:</b>	
Respiratory Protection:	Provide sufficient ventilation during operations which cause vapor formation. If ventilation is insufficient, suitable respiratory protection must be provided. Self-contained breathing apparatus.
Hand Protection:	Protective gloves are recommended. Rubber gloves are recommended.
Eye Protection:	Safety glasses/goggles
Skin and Body Protection:	Wear suitable protective clothing.
Other Protective Equipment:	Eye wash equipment and safety shower.
Hygiene Measures:	It is a good industrial hygiene practice to minimize skin contact.

## Section 9. Physical and Chemical Properties

<b>Physical State:</b>	Liquid
<b>Color:</b>	Transparent/Colorless
<b>Odor:</b>	Slight amine odor

<b>Odor Threshold:</b>	Not available.
<b>% Non-volatile by Weight:</b>	0%
<b>pH:</b>	Not applicable.
<b>Specific Gravity (77°F):</b>	1.0
<b>% Volatile by Weight:</b>	≤1.0
<b>Melting Point:</b>	Not available.
<b>Freezing Point:</b>	Not available.
<b>Boiling point:</b>	Not available.
<b>Flash Point:</b>	≥77°C (>170.6°F), Closed cup
<b>Evaporation Rate (BuAc=1):</b>	Not available.
<b>Flammability:</b>	Not available.
<b>Explosion Limits:</b>	Not available.
<b>Vapor Pressure (mmHg):</b>	Not available.
<b>Vapor Density (Air=1):</b>	Not available.
<b>Solubility:</b>	Insoluble
<b>Partition Coefficient:</b>	Not available.
<b>Auto-ignition Temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Decomposition Temperature:</b>	Not available.

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## Section 10. Stability and Reactivity

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<b>Chemical Stability:</b>	Unstable
<b>Hazardous Polymerization:</b>	May Occur
<b>Conditions to Avoid:</b>	Avoid contact with acidic, basic, or oxidizing material. Avoid contact with water or moisture. <b>Will react in presence of water.</b> Store in a well-ventilated place at temperatures below 120°F. Keep container tightly closed. Keep from freezing.
<b>Incompatible Materials:</b>	Acidic, basic, or oxidizing materials. Alumina at high temperature.
<b>Hazardous Decomposition Products:</b>	Flammable hydrogen gas.

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## Section 11. Toxicological Information

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### Primary Routes of Entry:

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

Inhalation	No information available.
Ingestion:	Although ingestion is unlikely, liquid would irritate upper digestive tract if swallowed.
Skin:	May cause slight skin irritation, but no significant effect.
Eyes:	Causes serious eye damage.

### Signs and Symptoms of Exposures:

<b>Acute Toxicity:</b>	Octamethylcyclotetrasiloxane (Impurity) CAS # 556-67-2 Inhalation (Vapor): LC50 Rat >5000 mg/m <sup>3</sup> , 4 hours Oral (Liquid): LD50 Rat >5000 mg/kg
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<b>Chronic Toxicity:</b>	No information available.
<b>Skin corrosion/irritation:</b>	Octamethylcyclotetrasiloxane (Impurity) CAS # 556-67-2 Causes skin irritation. SKIN-RABBIT: 500 mg/24hour MILD
<b>Serious eye damage/eye irritation:</b>	Octamethylcyclotetrasiloxane (Impurity) CAS # 556-67-2: Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405) Modified Organopolysiloxane (CAS # Trade Secret): Causes serious eye damage.
<b>Reproductive toxicity:</b>	Octamethylcyclotetrasiloxane (Impurity) CAS # 556-67-2 Suspected of damaging fertility.
<b>Respiratory or Skin Sensitization:</b>	No information available.
<b>Mutagenicity:</b>	Negative (Bacteria)
<b>Carcinogenicity:</b>	

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

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<b>Ecotoxicity (Aquatic and Terrestrial):</b>	No information available.
<b>Bioaccumulative Potential</b>	The product is not bioaccumulating.
<b>Mobility in Soil:</b>	No information available.
<b>PBT and vPvB Assessment:</b>	No information available.
<b>Other Adverse Effects:</b>	No information available.

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## Section 13. Disposal Considerations

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<b>Product:</b>	Can be burned in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as in accordance to federal, state and local regulations.
<b>Disposing of Contaminated Packaging:</b>	Dispose of as unused product as in accordance to federal, state and local regulations.

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## Section 14. Transport Information

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<b>Land Transport (DOT):</b>	Classified as a "combustible liquid" according to 49 CFR 173.120 (b)(1). Not regulated for ground shipments in the U.S. in non-bulk packaging ( $\leq 119$ gallons).
UN Number:	Not Applicable
UN Proper Shipping Name:	Not Applicable
Transport Hazard Class:	Not Applicable
Packing Group:	Not Applicable
<b>Sea Transport (IMDG):</b>	<b>Not Regulated</b>
UN Number:	Not Applicable
UN Proper Shipping Name:	Not Applicable
Transport Hazard Class:	Not Applicable
Packing Group:	Not Applicable

**Air Transport (IATA):** **Not Regulated**

UN Number: Not Applicable  
 UN Proper Shipping Name: Not Applicable  
 Transport Hazard Class: Not Applicable  
 Packing Group: Not Applicable

**Environmental Hazard (e.g., Marine pollutant):** No

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code is not applicable.

**Section 15. Regulatory Information**

**International Inventories:**

TSCA (USA): Yes  
 DSL (Canada): No  
 NDSL (Canada): No  
 ENCS (Japan): Yes  
 EINECS (Europe): Yes  
 IECSC (China): Yes  
 KECL (Korea): Yes  
 PICCS (Philippines): Yes  
 AICS (Australia): Yes

**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: Not regulated  
 New Jersey Right to Know Components: Not listed  
 Pennsylvania Right to Know Components: Not listed  
 California Proposition 65: None

**Section 16. Other Information**

**WHMIS Classification:** No information available

**HMIS Rating:**

Health Hazard: 2  
 Flammability: 2  
 Physical Hazard: 2  
 Personal Protection Equipment: X

**NFPA Rating**

Health Hazard: 2  
 Fire Hazard: 2  
 Reactivity Hazard: 2



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