

APS-324

Section 1. Product and Company Identification

Product Name:	APS-324
Chemical Name/Family:	Reactive amino-modified silicone fluid
CAS No.:	Proprietary
Product Use:	Resin Modifier, Textile Treatment, Polishing Agent
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

Section 2. Hazards Identification

GHS Classification:**Physical Hazards**

Flammable liquids Category 4

Health Hazards

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 1

Reproductive organ toxicity Category 2

Environmental Hazards

Not classified

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 flames and hot surfaces. – No smoking
 Wear protective gloves/ protective clothing/ eye protection/face protection.
 Wash skin and other exposed areas thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Use personal protective equipment as required.

Response

In case of fire: Use suitable extinguishing media for extinction. See Section 5.
 IF ON SKIN: Wash with plenty of soap and water.
 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.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 Immediately call a POISON CENTER or doctor/physician.
 IF exposed or concerned: Get medical advice/attention.

Storage

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

Disposal

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

Potential Health Effects:

Inhalation: Mist irritating to the respiratory tract. Toxic by aerosol inhalation, may cause death.
 Skin Contact: May cause slight skin irritation.
 Eyes Contact: Causes eye irritation.
 Ingestion: Although ingestion is unlikely, liquid would irritate upper digestive tract if swallowed.

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Amino Modified Silicone	Proprietary	>95
Octamethylcyclotetrasiloxane (impurity)	556-67-2	3 - < 5

Section 4. First Aid Measures

Skin Contact: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.
 If skin irritation occurs: Get medical advice/attention.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Section 5. Firefighting Measures

Specific Hazards in Case of Fire:	Combustible liquid. By heating and fire, harmful vapors/gases may be formed. Nitrogen oxides. (corrosive)
Fire Extinguishing Media:	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable Extinguishing Media:	Do not use a solid water stream as it may scatter and spread fire.
Special Protective Equipment and Precaution for Firefighters:	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 you can do so without risk.
Unusual Fire & Explosion Hazards:	No information available.

Section 6. Accidental Release Measures

Personal Precautions:	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch or walk through spilled material. Ensure adequate ventilation.
Protective Equipment:	Wear appropriate personal protective equipment.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Methods and Materials for Containment and Cleaning up:	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.

Section 7. Handling and Storage

Handling Conditions:	Provide adequate ventilation. Use adequate ventilation when this product is heated at approximately 150°C (300°F) and above in the presence of air. Use care in handling/storage. Obtain special instructions before use. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Pregnant or breastfeeding women must not handle this product. Do not breathe mist or vapor. Avoid contact with skin. Avoid contact with eyes. Do not use this product for consumers' spray. *** Agitate contents of container before using***
Storage Conditions:	Keep container tightly closed in a cool, well-ventilated place. Keep in properly labeled containers in accordance with the particular national regulations. Keep away from heat and sources of ignition. *** Agitate contents of container before using***

Section 8. Exposure Control/Personal Protection

Exposure Limits:	None Established
Appropriate engineering controls:	Explosion-proof general and local exhaust ventilation.

Personal protective equipment:

Respiratory Protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand Protection:	Wear protective gloves.
Eye Protection:	Tightly sealed safety glasses.
Skin and Body Protection:	Wear suitable protective clothing.
Other Protective Equipment:	Provide safety shower and eyewash station.
Hygiene Measures:	Avoid contact with skin. Avoid contact with eyes. When using, do not eat, drink or smoke. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. This product can generate formaldehyde at approximately 150 °C (300 °F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator or protective clothing when this product is heated at approximately 150 °C (300 °F) and above in the presence of air.

Section 9. Physical and Chemical Properties

Physical State:	Liquid
Color:	Colourless, clear
Odor:	Amine odor
Odor Threshold:	No Information Available
% Non-volatile by Weight:	No Information Available
pH:	N/A
Specific Gravity (77°F):	0.98
% Volatile by Weight:	<5.00
Melting Point:	No Information Available
Freezing Point:	No Information Available
Boiling point:	No Information Available
Flash Point:	> 141.8 °F (> 61 °C) Closed Cup 204.8 °F (96 °C) Open Cup
Evaporation Rate (BuAc=1):	Negligible
Flammability:	No Information Available
Explosion Limits:	No Information Available
Vapor Pressure (mmHg):	Negligible
Vapor Density (Air=1):	No Information Available
Solubility:	Not soluble in water
Partition Coefficient:	No Information Available
Auto-ignition Temperature:	No Information Available
Viscosity:	650 mm ² /s (25 °C)
Decomposition Temperature:	No Information Available

Section 10. Stability and Reactivity

Chemical Stability:	Stable under normal conditions.
Hazardous Polymerization:	May not occur.

Conditions to Avoid: None known.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Nitrogen oxides. Formaldehyde.

Section 11. Toxicological Information

Primary Routes of Entry:

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

Inhalation: No significant effects are expected.

Ingestion: No significant effects are expected.

Skin: Causes skin irritation

Eyes: Causes serious eye damage. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

Signs and Symptoms of Exposures: No information available

Acute Toxicity: Amino modified organopolysiloxane (CAS Proprietary)
 LD50 Oral (Mouse) : > 50 ml/kg
 Octamethylcyclotetrasiloxane (Impurity) (CAS 556-67-2)
 LC50 Inhalation (Rat) : > 5000 mg/m³, 4 hours
 LD50 Oral (Rat) : > 5000 mg/kg

Chronic Toxicity: No Information Available

Skin corrosion/irritation: Causes skin irritation.
 Octamethylcyclotetrasiloxane : SKIN-RABBIT : 500mg/24 r MILD

Serious eye damage/eye irritation: Causes serious eye damage.
 Octamethylcyclotetrasiloxane : EYE-RABBIT : MILD

Respiratory Sensitization: No Information Available

Skin Sensitization: Octamethylcyclotetrasiloxane : No evidence of sensitization

Reproductive toxicity: Octamethylcyclotetrasiloxane administered to rats by whole body inhalation at concentrations of 500 and 700 ppm for 70 days prior to mating, through mating, gestation and lactation resulted in decreases in live litter size. Additionally, increases in the incidence of deliveries of offspring extending over an unusually long time period (dystocia) were observed at these concentrations. Statistically significant alterations in these parameters were not observed in the lower concentrations evaluated (300 and 70 ppm). In a previous range-finding study, rats exposed to vapor concentrations of 700 ppm had decreases in the number of implantation sites and live litter size.
 Octamethylcyclotetrasiloxane : The significance of these findings to humans is not known.

Mutagenicity: Octamethylcyclotetrasiloxane : Negative(Bacteria)

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:	Dispose of contents/ container in accordance with local/regional/national/international regulations.
Disposing of Contaminated Packaging:	Contaminated packaging should be as empty as possible. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn or use a cutting torch on the empty drum.

Section 14. Transport Information

Land Transport (DOT):	Not regulated as dangerous goods.
UN Number:	NA1993
UN Proper Shipping Name:	Combustible liquid, n.o.s. (Octamethylcyclotetrasiloxane)
Transport Hazard Class:	Combustible liq
Packing Group:	III
Sea Transport (IMDG):	Not regulated as dangerous goods.
UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group:	N/A
Air Transport (IATA):	Not regulated as dangerous goods.
UN Number:	N/A
UN Proper Shipping Name:	N/A
Transport Hazard Class:	N/A
Packing Group:	N/A
Environmental Hazards (e.g., Marine pollutant):	No

Section 15. Regulatory Information

International Inventories:	
TSCA (USA):	Yes
DSL (Canada):	No
ENCS (Japan)	Yes
EINECs (Europe):	Yes
IECSC (China):	Yes
KECL (Korea):	Yes



PICCS (Philippines): Yes
AICS (Australia): Yes
ERMA (New Zealand): Yes

Federal Regulations:

SARA 313: No Information Available
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: 3
Flammability: 2
Physical Hazard: 0
Personal Protection Equipment: X

NFPA Rating

Health Hazard: 3
Fire Hazard: 2
Reactivity Hazard: 0

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