

APS-PSA-101-10

Section 1. Product and Company Identification

Product Name:	APS-PSA-101-10
Chemical Name/Family:	Methylpolysiloxane Solution
CAS No.:	Proprietary
Product Use:	Pressure sensitive adhesive
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 2

Health Hazards

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Irritation Category 2B

Reproductive Toxicity (The unborn child/Fertility) Category 2

Specific Target Organ Toxicity, Single Exposure Category 3 (Narcotic Effects)

Specific Target Organ Toxicity, Repeated Exposure Category 2 (Central Nervous System)

Environmental Hazards

Hazardous To The Aquatic Environment, Acute Hazard Category 2

Hazardous To The Aquatic Environment, Long Term Hazard Category 3

GHS Label:

Symbol:

Signal Word: **Danger**

Hazard Classification:**Hazard Statement:**

Highly flammable liquid and vapor.
Causes skin and eye irritation.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.
May cause damage to organs (central nervous system) through prolonged or repeated exposure.
Toxic to aquatic life.
Harmful to aquatic life with long lasting effects.

Precautionary Statement:**Prevention**

Obtain special instructions before use.
Do not handle until all safety instructions have been read and understood.
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/light equipment. Use non-sparking tools.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Response

In case of fire: Use water fog, foam, dry chemical powder or carbon dioxide (CO₂) to extinguish.
If on skin (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
For specific treatment see Section 4 of this SDS.
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.
If exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage

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

Disposal

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

Section 3. Composition/Information on Ingredients

Ingredients	CAS No.	Percent
Toluene	108-88-3	30- < 40%
Xylene	1330-20-7	3- < 5%
Ethylbenzene	100-41-1	3- < 5%
Octamethylcyclotetrasiloxane	556-67-2	3- < 5%

Section 4. First Aid Measures

- Skin Contact:** Take off immediately all contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.
- Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
- Ingestion:** Rinse mouth with water. Get medical advice/attention.

Section 5. Firefighting Measures

- Fire and Explosion Hazard:** Highly flammable liquid and vapor.
- Fire Extinguishing Media:** Water fog, foam, dry chemical powder, carbon dioxide (CO₂).
- Unsuitable Extinguishing Media:** Do not use a solid stream water as it may scatter and spread fire.
- Specific Hazards in Case of Fire:** Do not breathe fumes. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.
- Special Fire Fighting Information:** Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.

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. Ventilate closed spaces before entering them.
- Protective Equipment:** Wear appropriate personal protective equipment.
- Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Avoid release to the environment.
- 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. Prevent entry into waterways, sewer, basements, or confined areas. Small spills: Wipe up with absorbent materials (cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for reuse.

Section 7. Handling and Storage

Handling Conditions: All equipment used when handling the product must be grounded. Use non-sparkign tools and explosion-proof equipment. Provide adequate ventilation. Vapors may form explosive mixtures with air. Use care in handling/storage. Do not handle, store, or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Take precautionary measures against static discharges. Avoid release to the enivornment. Do not empty into drains. Do not breathe mist or vapor.

****Agitate contents of container before use****

Storage Conditions: Keep away from heat, sparks and open flame. Store in cool place. Store in a well-ventilated place. Keep out of reach of children. Keep container tightly closed. Store in a cool, dry place out of direct sunglihgt. Keep in original container.

Section 8. Exposure Control/Personal Protection

Exposure Limits: See exposure limits on
Ethylbenzene CAS# 100-41-4
Toluene CAS# 108-88-3
Xylene 1330-20-7

Appropriate engineering controls: Explosion-proof general and local exhaust ventilation. Provide eye wash station.

Personal protective equipment:

Respiratory Protection: If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Hand Protection: Wear protective gloves.

Eye Protection: Tightly sealed safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Other Protective Equipment: Wear appropriate thermal protective clothing when necessary.

Hygiene Measures: When using, do not eat, drink, or smoke. Wash hands before breaks and immediately after handling this product. Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and Chemical Properties

Physical State: Liquid

Color: Colorless/Clear

Odor: Solvent Odor

Odor Threshold: No information available

% Non-volatile by Weight: No information available

pH: No information available

Specific Gravity (77°F): No information available

% Volatile by Weight: No information available

Melting Point: No information available

Freezing Point: No information available

Boiling point: 230 F

Flash Point:	48.2 F
Evaporation Rate (BuAc=1):	> 1 (Butyl Acetate = 1)
Flammability:	No information available
Explosion Limits:	No information available
Vapor Pressure (mmHg):	3.7 kPa (25 C)
Vapor Density (Air=1):	3.1 (air=1)
Solubility:	Not Soluble in water
Partition Coefficient:	No information available
Auto-ignition Temperature:	> 572 F
Viscosity:	75 Pa
Decomposition Temperature:	No information available

Section 10. Stability and Reactivity

Chemical Stability:	Stable
Hazardous Polymerization:	Does 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. Silicone dioxide. Formaldehyde.

Section 11. Toxicological Information

Primary Routes of Entry:

Eye:	Yes	Skin:	Yes	Inhalation:	Yes	Ingestion:	Yes
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Potential Health Effects:

Inhalation	Prolonged inhalation may be harmful. May cause drowsiness and dizziness. Headache, nausea, and vomiting. May cause damage to organs through prolonged or repeated exposure by inhalation.
Ingestion:	Expected to be a low ingestion hazard.
Skin:	Causes skin irritation.
Eyes:	Causes eye irritation.

Acute Toxicity:

Components (Acute)	Species	Test Results
Ethylbenzene		
Dermal (LD50)	Rabbit	17800 mg/kg
Oral (LC50)	Rat	3500 mg/kg
Octamethylcyclotetrasiloxane		
Inhalation (LC50)	Rat	> 5000 mg/m ³ (4 hrs)
Oral (LD50)	Rat	> 5000 mg/kg
Toluene		
Dermal (LD50)	Rabbit	12124 mg/kg
Inhalation (LC50)	Mouse	400 ppm (24 hrs)
Oral (LD50)	Rat	5000 mg/kg

Xylene		
Dermal (LD50)	Rabbit	> 43 g/kg
Inhalation (LC50)	Mouse	3907 ppm (6 hrs)
	Rat	6350 ppm (4 hrs)
Oral (LD50)	Mouse	1590 mg/kg
	Rat	3523-8600 mg/kg

Chronic Toxicity: Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause damage to organs through prolonged or repeated exposure.

Respiratory or Skin Sensitization: No information available

Mutagenicity: N/A

Carcinogenicity:

IARC Monographs. Overall Evaluation of Carcinogenicity	
Ethylbenzene	2B Possibly carcinogenic to humans.

Section 12. Ecological Information

Ecotoxicity (Aquatic and Terrestrial): Toxic/harmful to aquatic life with long lasting effects.

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

Section 14. Transport Information

Land Transport (DOT):	Regulated
UN Number:	UN1866
UN Proper Shipping Name:	Resin Solution
Transport Hazard Class:	3
Packing Group:	II
Sea Transport (IMDG):	Regulated
UN Number:	UN1866
UN Proper Shipping Name:	Resin Solution (flammable)
Transport Hazard Class:	3
Packing Group:	II
Air Transport (IATA):	Regulated
UN Number:	UN1866

UN Proper Shipping Name: Resin Solution (flammable)
 Transport Hazard Class: 3
 Packing Group: II
Environmental Hazards (e.g., Marine pollutant): No information available

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:

Chemical Name	CAS #	% By Weight
Toluene	108-88-3	30 - < 40
Xylene	1330-20-7	3 - < 5
Ethylbenzene	100-41-4	3 - < 5

SARA 311/312: N/A
 Clean Water Act: N/A
 Clean Air Act, Section 112 HAPs (See 40CFR61): N/A

State Regulations:

Massachusetts Right to Know Components: Ethylbenzene CAS# 100-41-4
 Toluene CAS# 108-88-3; Xylene 1330-20-7
New Jersey Right to Know Components: Ethylbenzene CAS# 100-41-4
 Toluene CAS# 108-88-3; Xylene 1330-20-7
Pennsylvania Right to Know Components: Ethylbenzene CAS# 100-41-4
 Toluene CAS# 108-88-3; Xylene 1330-20-7
California Proposition 65: Ethylbenzene CAS# 100-41-4
 Toluene CAS# 108-88-3; Xylene 1330-20-7

Section 16. Other Information

WHMIS Classification: No information available

HMIS Rating:

Health Hazard: 2
 Flammability: 3
 Physical Hazard: 0
 Personal Protection Equipment: X

NFPA Rating

Health Hazard: 2



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Fire Hazard: 3

Reactivity Hazard: 0

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