# Section 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>API-8214AP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name/Family:</td>
<td>Maleic anhydride modified chlorinated polypropylene</td>
</tr>
<tr>
<td>CAS No.:</td>
<td>Mixture</td>
</tr>
<tr>
<td>Product Use:</td>
<td>Adhesion Promoter</td>
</tr>
<tr>
<td>Restrictions:</td>
<td>For Industrial Use Only</td>
</tr>
<tr>
<td>Company:</td>
<td>Advanced Polymer, Inc.</td>
</tr>
<tr>
<td>Address:</td>
<td>400 Paterson Plank Road Carlstadt, NJ 07072 U.S.A.</td>
</tr>
<tr>
<td>Telephone:</td>
<td>201-933-0600</td>
</tr>
<tr>
<td>Fax:</td>
<td>201-933-8442</td>
</tr>
<tr>
<td>24 Hour Emergency Number</td>
<td>800-424-9300</td>
</tr>
<tr>
<td>24 Hour Chemtrec Number</td>
<td>800-424-9300</td>
</tr>
</tbody>
</table>

# Section 2. Hazards Identification

## GHS Classification:

### Physical Hazards

| Flammable liquids | Category 2 |

### Health Hazards

| Aspiration Hazard | Category 1 |
| Skin corrosion/irritation | Category 2 |
| Sensitization, skin | Category 1 |
| Serious eye damage/eye irritation | Category 2A |
| Specific target organ toxicity, single exposure | Category 1 |
| Specific target organ toxicity, repeated exposure | Category 1 |
| Reproductive toxicity | Category 2 |
| Carcinogenicity | Category 2 |
| Germ Cell mutagenicity | Category 2 |

### Environmental Hazards

| Hazardous to the aquatic environment, acute toxicity | Category 2 |
| Hazardous to the aquatic environment, chronic toxicity | Category 2 |

## GHS Label:

<table>
<thead>
<tr>
<th>Symbol:</th>
</tr>
</thead>
</table>

**Signal Word:** Danger
Hazard Classification:

Hazard Statement:
- Highly flammable liquid and vapor
- May be fatal if swallowed and enters airways.
- Causes skin irritation
- May cause an allergic skin reaction
- Causes serious eye irritation
- Causes damage to organs (Central nervous system, Respiratory system, Kidneys, Liver)
- Causes damage to organs (Central nervous system, Respiratory system, Kidneys, Liver) through prolonged or repeated exposure
- Suspected of damaging fertility or the unborn child
- Suspected of causing cancer
- Suspected of causing genetic defects
- Toxic to aquatic life
- Toxic to aquatic life with long lasting effects

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 and other personal protective equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/eye protection/face protection.
- Wash uncovered body surfaces and hands thoroughly after handling.
- Do not breathe dust/fume/gas/mist/vapors/sprays.
- Do not eat, drink or smoke when using this product.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
Response

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: Use alcohol resistance foam, carbon dioxide, dry-chemical extinguishing system and not water.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water.
Specific measures (see Section 4 First Aid Measures on this SDS).
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
IF exposed: Call a POSION CENTER or doctor/physician.
Call a POISON CENTER/doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell.

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.

Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modified Chlorinated Polypropylene with maleic anhydride</td>
<td>68442-33-1</td>
<td>30.0</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>70.0</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

Skin Contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash 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. If eye irritation persists: Get medical advice/attention.
Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.
Ingestion: Rinse mouth with water. Immediately call a POISON CENTER or doctor/physician.

Section 5. Firefighting Measures

Fire and Explosion Hazard: There is a risk of fire or explosion by contact with heat or flame. Avoid inhalation of material or combustion by-products (carbon monoxide and hydrogen chloride). Material is lighter than water and a fire may be spread by the use of water.
Fire Extinguishing Media: Regular dry chemical, carbon dioxide, or alcohol-resistant foam.
Unsuitable Extinguishing Media: No information available
Specific Hazards in Case of Fire: Move container from fire area if it can be done without risk. Prohibited from entering into locations around the fires. Cool container with water spray.
Special Fire Fighting Information: Wear protective gloves, safety glasses, air-purifying respirators.
Section 6. Accidental Release Measures

Personal Precautions: Avoid breathing mist or vapours. Ensure adequate ventilation. Evacuate personnel to safe areas.

Protective Equipment: Use personal protective equipment (cartridge respirator, safety goggles, chemical resistant gloves).

Environmental Precautions: Remove all sources of ignition. Avoid discharging into the environment. Do not let enter drain.

Methods and Materials for Containment and Cleaning up: Collect liquid in an appropriate container or absorb with an inert material (e.g. sand, earth, vermiculite) and place in a chemical waste container.

Section 7. Handling and Storage

Handling Conditions: Avoid contact with skin and eyes or clothing. Avoid inhalation of vapours or mist. Use personal protective equipment (e.g. safety glasses, gas respirators, protective gloves). Wash thoroughly after handling. To keep out non-participants. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharge.

Storage Conditions: Good ventilation is needed at work area. Protect from sunlight. Store at temperatures between 40°F and 90°F. Product will become more viscous at lower temperatures. Store in a well-ventilated place. Do not accumulate the vapour. (strong) oxidizing materials, strong acids.

Section 8. Exposure Control/Personal Protection

Exposure Limits: Toluene CAS# 108-88-3
TWA 100 ppm; 375 mg/m3 – USA. OSHA – Table Z-1 Limits for Air Contaminants
STEL 150 ppm; 560mg/m3 – USA. OSHA – Table Z-1 Limits for Air Contaminants
TWA 200 ppm – USA. Occupational Exposure Limits – Table Z-2
Remarks Z37.12-1967
CEIL 300 ppm – USA. Occupational Exposure limits – Table Z-2
Peak 500 ppm – USA. Occupational Exposure limits – Table Z-2
TWA 20 ppm – USA. ACGIH Threshold Limit Values (TLV)

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. General ventilation required. Wear eye/face, skin, body and respiratory protection as needed to control the exposure limits.

Personal protective equipment:
Respiratory Protection: Chemical cartridge respirators.
Hand Protection: Chemical resistant gloves.
Eye Protection: Use safety glasses, coverall chemical goggles.
Skin and Body Protection: Wear appropriate chemical resistant clothing.
Other Protective Equipment: Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Hygiene Measures: Wash uncovered body surfaces and hands thoroughly after handling.
Section 9. Physical and Chemical Properties

Physical State: Viscous liquid
Color: Pale yellow to amber
Odor: Aromatic
Odor Threshold: No information available.
PH: N/A
Specific Gravity (77°F): <1
% Volatile by Weight: 67.0 – 72.0
% Non-Volatile by Weight: 28.0 - 33.0
% VOC: No information available.
Melting Point: No information available.
Freezing Point: No information available.
Boiling Point: Not available. Toluene: 230 - 232°F (110-111°C)
Flash Point: No information available. Toluene: 4.0°C (closed cup)
Evaporation Rate (BuAc=1): No information available.
Flammability: No information available.
Explosion Limits: No information available.
Vapor Pressure (mmHg): Not available. Toluene: 29.1 hPa (21.8 mmHg) 68°F (20°C)
Vapor Density (Air=1): No information available.
Solubility: Insoluble in water
n-Octanol/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.
Incompatible Materials: Strong oxidizing materials and acids.
Hazardous Decomposition Products: Thermal decomposition products: Carbon monoxide, carbon dioxide, and hydrogen chloride.

Section 11. Toxicological Information

Primary Routes of Entry:

<table>
<thead>
<tr>
<th></th>
<th>Eye</th>
<th>Skin</th>
<th>Inhalation</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Potential Health Effects:

- Inhalation: May be harmful if inhaled.
- Ingestion: May be harmful if swallowed and enters airways.
- Skin: Causes skin irritation.
- Eyes: Causes serious eye irritation.
- Acute Toxicity: No information available.
- Chronic Toxicity: No information available.
Respiratory Sensitization: No information available.
Skin Sensitization: May cause an allergic skin reaction.
Mutagenicity: Suspected of causing genetic defects
Toxic to reproduction: Suspected of damaging fertility or the unborn child
Specific Target Organ Toxicity (Single Exposure): Causes damage to Central nervous system, Respiratory system, Kidneys, Liver
Specific Target Organ Toxicity (Repeated Exposure): Causes damage to Central nervous system, Respiratory system, Kidneys, Liver
Aspiration hazard: May be harmful if swallowed and enters airways
Carcinogenicity: Suspected of causing cancer.

<table>
<thead>
<tr>
<th>IARC:</th>
<th>Toluene: Group 3</th>
<th>NTP</th>
<th>No</th>
<th>OSHA:</th>
<th>No</th>
</tr>
</thead>
</table>

Section 12. Ecological Information

Ecotoxicity (Aquatic and Terrestrial): Toxic to aquatic life. (See Toluene info)
Persistence / Degradability: Toxic to aquatic life with long lasting effects. (See Toluene info)
Bioaccumulative Potential: No information available. (See Toluene info)
Mobility in Soil: No information available.
PBT and vPvB Assessment: No information available.

Section 13. Disposal Considerations

Product: Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of contents/container in accordance with local/regional/ national/international regulation. Contact a licensed professional waste disposal service to this material. Do not dump this product into sewers, on the ground or into any body of water.
Contaminated Packaging: Dispose of as unused product.

Section 14. Transport Information

Land Transport (DOT):
- UN Number: 1866
- UN Proper Shipping Name: Resin solution
- Transport Hazard Class: 3
- Packing Group: II

Sea Transport (IMDG):
- UN Number: 1866
- UN Proper Shipping Name: Resin Solution
- Transport Hazard Class: 3
- Packing Group: II

Air Transport (IATA):
- UN Number: 1866
- UN Proper Shipping Name: Resin Solution
- Transport Hazard Class: 3
- Packing Group: II

Environmental Hazards (e.g., Marine pollutant): Yes
## Section 15. Regulatory Information

<table>
<thead>
<tr>
<th>International Inventories:</th>
<th>Compound A</th>
<th>Toluene</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA (USA):</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>DSL (Canada):</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>ENCS (Japan):</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>REACH (Europe):</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>IECC (China):</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>KECL (Korea):</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>PICCS (Philippines):</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>AICS (Australia):</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>ERMA (New Zealand):</td>
<td>No information available</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Federal Regulations:**

- **SARA 313:** Toluene (CAS # 108-88-3)
- **SARA 311/312:** No information available.
- **Clean Water Act:** 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:** Toluene (CAS # 108-88-3)
- **New Jersey Right to Know Components:** Toluene (CAS # 108-88-3)
- **Pennsylvania Right to Know Components:** Toluene (CAS # 108-88-3)
- **California Proposition 65:** Toluene (CAS # 108-88-3)

## 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
- Fire Hazard: 3
- Reactivity Hazard: 0

Date Prepared ........................................... June 12, 2015
Prepared By ............................................. Advanced Polymer, Inc.
Date Revised ............................................ August 18, 2016
Revised By ................................................ Advanced Polymer, Inc.

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