

## AdvaBond®7419

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### Section 1. Product and Company Identification

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Product Name:	AdvaBond®7419
Chemical Name/Family:	Modified polyolefin with maleic anhydride
CAS No.:	Mixture
Product Use:	Adhesion promoter
Restrictions:	For Industrial Use Only
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

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### Section 2. Hazards Identification

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#### GHS Classification:

Acute toxicity, oral	Category 5
Acute toxicity, dermal	Category 4
Acute toxicity, inhalation (vapour)	Category 4
Skin corrosion/irritation	Category 3
Eye damage / eye irritation	Category 2A
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure); Central Nervous System, Blood, Liver, Kidneys	Category 1
Specific target organ toxicity (repeated exposure); Nervous System, Blood	Category 2
Hazardous to aquatic environment (acute toxicity)	Category 3

#### GHS Label:



#### **Pictogram:**

**Signal Word:** Danger

#### Hazard Classification:

#### **Hazard Statement:**

May be harmful if swallowed  
Harmful in contact with skin  
Harmful if inhaled  
Causes mild skin irritation  
Causes serious eye irritation  
Suspected of damaging fertility or the unborn child  
Causes damage to Central Nervous System, Blood, Liver, or Kidneys  
May cause damage to Nervous system and Blood through prolonged or repeated exposure  
Harmful to aquatic life

**Precautionary Statements:**

**Prevention**

Wear protective gloves/protective clothing/eye protection/face protection.  
Wash uncovered body surface and hands thoroughly after handling.  
Wear protective gloves / eye protection / face protection.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment.  
Use only outdoors or in a well-ventilated area.

**Response**

IF ON SKIN: Wash with plenty of soap and water.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
Wash contaminated clothing before reuse.  
Specific measures (see Section 4 on this SDS).  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If skin irritation occurs: Get medical advice/attention.  
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.  
Get medical advice/attention if you feel unwell.  
Collect spillage.

**Storage**

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 (wt%)
Modified polyolefin with maleic anhydride	Proprietary	Trade Secret
Emulsifier	Proprietary	Trade Secret
Ethylene glycol monobutyl ether (Butyl cellosolve)	111-76-2	5 - 10
Water	7732-18-5	64 - 69

### Section 4. First Aid Measures

- Skin Contact:** Wash with plenty of soap and water. Wash contaminated clothing 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. If eye irritation persists: Get medical advice/attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- Ingestion:** Rinse mouth with water. Get medical attention if you feel unwell.

### Section 5. Firefighting Measures

- Specific Hazards in Case of Fire:** Avoid inhalation of material or combustion by-products (carbon monoxide, nitrogen oxides).
- Fire Extinguishing Media:** Water spray, regular dry chemical, carbon dioxide, alcohol-resistant foam
- Unsuitable Extinguishing Media:** No information available.
- Special Protective Equipment and Precaution for Firefighters:** Move containers from fire area if it can be done without risk. If you cannot move, cool container and its surroundings with water spray. Prohibited from entering into locations around the fires. Fighters should work from the windward side. Wear protective equipment, air-purifying respirator.
- Unusual Fire & Explosion Hazards:** No information available.

### Section 6. Accidental Release Measures

- Personal Precautions:** Avoid contact with skin or eyes. Avoid breathing vapours or mist. Ensure adequate ventilation. Evacuate personnel to safe areas.
- Protective Equipment:** Use personal protective equipment (e.g. protective gloves, gas respirators, safety glasses or goggles).
- Environmental Precautions:** Discharge into the environment must be avoided. Do not let product enter the drain.
- Methods and Materials for Containment and Cleaning up:** If there is no danger, stop leak. Collect liquid in an appropriate container or absorb with an inert material (e.g. sand earth vermiculite), and place in a chemical waste container. If product is leaked a lot, enclosed by embankments to prevent runoff, leading to a safe place to recover. Remove all sources of ignition.

### Section 7. Handling and Storage

- Handling Conditions:** Avoid contact with eyes, skin or clothing. Avoid inhalation of vapours or mist. Use personal protective equipment (e.g. safety goggles, gas respirators, safety glasses). Provide appropriate local exhaust or ventilation at working area. Good ventilation is needed at work area. Avoid contact with strong oxidizing

materials and acids. Do not eat, drink or smoke when using this product. Wash uncovered body surface and hands thoroughly after handling. **Agitate thoroughly before use.**

<b>Storage Conditions:</b>	Store at room temperature in a well-ventilated place. Store dark place. Store in a tightly closed container. Store at >32°F (>0°C). Preferably 41 – 104°F (5 – 40°C). Protect from sunlight. Protect from contamination and incompatible materials. <b>Protect from freezing.</b>
<b>Packaging Materials</b>	Plastic jerry can, composite drum

## Section 8. Exposure Control/Personal Protection

<b>Exposure Limits:</b>	Butyl cellosolve: 25ppm
<b>Appropriate engineering controls:</b>	Provide local exhaust ventilation system.
<b>Personal protective equipment:</b>	
Respiratory Protection:	Chemical cartridge respirators.
Hand Protection:	Chemical resistant gloves.
Eye Protection:	Wear Safety glasses. Chemical goggles.
Skin and Body Protection:	Wear appropriate chemical resistant clothing.
Other Safety Equipment:	Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Hygiene Measures:	Wash hands thoroughly after handling.

## Section 9. Physical and Chemical Properties

<b>Physical State:</b>	Liquid
<b>Color:</b>	Pale white – Pale yellow
<b>Odor:</b>	Slight
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	7.5 – 9.0
<b>Specific Gravity (77°F):</b>	No data available
<b>% Volatile by Weight:</b>	No data available
<b>% VOC:</b>	~8
<b>Melting Point:</b>	~ 32°F (0°C)
<b>Freezing Point:</b>	No data available
<b>Boiling point:</b>	No data available
<b>Flash Point:</b>	≥176°F (80°C) (Similar product)
<b>Evaporation Rate (BuAc=1):</b>	No data available
<b>Flammability:</b>	No data available
<b>Explosion Limits:</b>	No data available
<b>Vapor Pressure (mmHg):</b>	No data available
<b>Vapor Density (Air=1):</b>	No data available
<b>Solubility:</b>	Dispersible in water
<b>n-Octanol/Water Partition Coefficient:</b>	Butyl cellosolve: Log Pow = 0.83
<b>Auto-ignition Temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Decomposition Temperature:</b>	No data available

## Section 10. Stability and Reactivity

<b>Chemical Stability:</b>	Stable at normal temperatures and pressure. On contact with hot surfaces or flames this substance decomposes forming carbon monoxide and nitrogen oxides.
<b>Hazardous Polymerization:</b>	May not occur
<b>Conditions to Avoid:</b>	Avoid heat, sparks, open flames and hot surfaces.
<b>Incompatible Materials:</b>	Strong oxidizing materials, strong acids
<b>Hazardous Decomposition Products:</b>	Thermal decomposition products: Carbon monoxide, nitrogen oxides (combustion)

## Section 11. Toxicological Information

### Primary Routes of Entry:

Eye:	Yes	Skin:	Yes	Inhalation:	Yes	Ingestion:	Yes
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Inhalation	Harmful if inhaled.
Ingestion:	May be harmful if swallowed.
Skin:	Harmful in contact with skin; Causes mild skin irritation.
Eyes:	Causes serious eye irritation.
<b>Signs and Symptoms of Exposures:</b>	No information available
<b>Acute Toxicity</b>	Butyl cellosolve : Inhalation(vapour)-rat LC50 450ppm/4hr (2.2mg/L/4hr) Oral-rat LD50 470mg/kg  Emulsifier: Oral-rat LD50 200~2000mg/kg (allied substance)
<b>Skin corrosion/irritation:</b>	Butyl cellosolve : Rabbit ; irritation Emulsifier: Rabbit ; no irritation
<b>Eye damage/ irritation:</b>	Butyl cellosolve : Draize Test-rabbit ; corneal opacity, iritis, conjunctival redness, chemosis Emulsifier: Rabbit ; Risk on severe disabilities (allied substance)
<b>Skin Sensitization:</b>	Classification not possible(GHS) Butyl cellosolve : Maximization Test - Guinea pig ; Negative
<b>Respiratory Sensitization:</b>	Not available
<b>Mutagenicity:</b>	Classification not possible(GHS) Butyl cellosolve : Somatic mutagenicity test (in vivo) ; Negative Chromosome aberration test ; Negative Ames test ; Negative
<b>Carcinogenicity:</b>	Classification not possible (GHS) Butyl cellosolve : 3 (IARC), 3A (ACGIH)
<b>Reproductive toxicity:</b>	Suspected of damaging fertility or the unborn child Butyl cellosolve : Since there is description that it is observed of adverse effects in development as decrease implantation count and increase embryo resorptions etc. on maternal animals in pregnant rat and rabbit.
<b>Specific target to organ toxicity (single exposure)</b>	Causes damage to Central nervous system, Blood, Liver or Kidneys Butyl cellosolve : In animal, the effect on the erythrocytes is characteristic, but in human, there is the reports not only about the effect to blood such as the decrease of

<b>Specific target organ toxicity (repeated exposure)</b>	hemoglobin, erythrocytes, and hemoglobinuria, but about the symptoms such as coma, vertigo, dyspnoea, metabolic acidosis, hematuria, unusual liver function. May cause damage to Nervous system and Blood through prolonged or repeated exposure. Butyl cellosolve : 90-day inhalation exposure test – rat, reduction in erythrocyte count and hemoglobin and hematocrit values at a dose 77ppm, also, hematological conditions such as an increase in mean cell hemoglobin was observed.
<b>Aspiration hazard</b>	Not available

## Section 12. Ecological Information

<b>Ecotoxicity</b>	Harmful to aquatic life Butyl cellosolve : Fish(Cyprinodon variegates) LC50 =116mg/L/96hr Crustacea (Penaeus monodon) LC50 =130mg/L/96hr Emulsifier : Crustacea(Daphnia magna) EC50 10-100mg/L/48hr Algae(green algae) EC50 10-100mg/L/72hr (allied substance)
<b>Persistence / Degradability</b>	Not degradable in the environment, remain for a long time. (in the resin composition) Butyl cellosolve : BOD: 96% Emulsifier : Biodegradable
<b>Bioaccumulation</b>	Not available Buthyl cellosolve Log Pow = 0.83
<b>Mobility in Soil:</b>	No data available
<b>Other Adverse Effects:</b>	No data available

## Section 13. Disposal Considerations

<b>Product:</b>	Dispose of contents / container in accordance with local / regional / national /international regulation. Do not dump into sewers, on the ground or into any body of water. Burn in chemical incinerator equipped.
<b>Disposing of Contaminated Packaging:</b>	Contact a licensed professional waste disposal service to this material.

## Section 14. Transport Information

<b>Land Transport (DOT):</b>	<b>Not Regulated</b>
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
<b>Air Transport (IATA):</b>	<b>Not Regulated</b>
UN Number:	Not Applicable
UN Proper Shipping Name:	Not Applicable

Transport Hazard Class: Not Applicable

Packing Group: Not Applicable

Environmental Hazards (e.g., Marine pollutant): None

## Section 15. Regulatory Informational

### International Inventories:

	Modified PO	Emulsifier	Butyl cellosolve
TSCA (USA):	Yes	Yes	Yes
DSL (Canada):	Yes	Yes	Yes
ENCS (Japan)	Yes	Yes	Yes
REACH (Europe):	No	No	No
IECSC (China):	No	Yes	Yes
KECL (Korea):	No	Yes	Yes
PICCS (Philippines):	No	Yes	Yes
AICS (Australia):	No	Yes	Yes
ERMA (New Zealand):	Unknown	Unknown	Unknown

### Federal Regulations:

SARA 313:	No information available
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:	No information available
New Jersey Right to Know Components:	No information available
Pennsylvania Right to Know Components:	No information available
California Proposition 65:	No information available

## Section 16. Other Information

**WHMIS Classification:** No information available

### HMIS Rating:

Health Hazard	1
Flammability:	1
Physical Hazard:	0
Personal Protection Equipment:	C

### NFPA Rating

Health Hazard:	1
Fire Hazard:	1
Reactivity Hazard:	0



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