

## AdvaBond® 8117

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### Section 1. Product and Company Identification

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Product Name:	AdvaBond® 8117
Chemical Name/Family:	Modified chlorine free polyolefin
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:

##### Physical Hazards

Flammable liquids Category 2

##### Health Hazards

Acute toxicity (oral) Category 4  
Acute toxicity (inhalation: vapour) Category 5  
Acute toxicity (inhalation: mist) Category 4  
Serious Eye damage / eye irritation Category 2B  
Specific target organ toxicity, single exposure Category 1 (Central nervous system)  
Specific target organ toxicity, single exposure Category 2 (Respiratory system)  
Specific target organ toxicity, single exposure Category 3 (Narcotic effects)  
Hazardous to the aquatic environment (acute toxicity) Category 2

##### Environmental Hazards

Hazardous to aquatic environment (chronic toxicity) Category 2

#### GHS Label:



#### Pictogram:

Signal Word: Danger

**Hazard Classification:**

**Hazard Statement:**

Highly flammable liquid and vapour  
Harmful if swallowed  
Harmful if inhaled (mist)  
May be harmful if inhaled (vapour)  
Causes eye irritation  
Causes damage to central nervous system  
May cause damage to respiratory system  
May cause drowsiness or dizziness  
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 equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wash hands and uncovered body surface thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in well-ventilated area.  
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 for extinction.  
If swallowed: Call a POISON CENTER or doctor / physician if you feel unwell.  
Rinse mouth.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.  
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.  
Specific treatment (see supplemental first aid instructions on this SDS).  
If exposed: Call a POISON CENTER or doctor / physician.  
Collect spillage.

#### Storage

Store in a well-ventilated place. Keep cool.

Store locked up.

#### Disposal

Dispose of contents/container in accordance with local / regional / national / international regulation to be specified.

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### Section 3. Composition/Information on Ingredients

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Ingredients	CAS No.	Percent
Modified Non-chlorinated Polyolefin	Proprietary	15 - 20
Methylcyclohexane (MCH)	108-87-2	70 - 75
n-Butyl acetate (BuOAc)	123-86-4	5 - 10
Compatibilizer	Proprietary	5 - 10
2-Butanol (2-BuOH)	78-92-2	0 - 5

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### Section 4. First Aid Measures

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**Skin Contact:** Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses. If inhaled, 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. Call a POISON CENTER or doctor/physician if you feel unwell.

**Ingestion:** Rinse mouth. Call a POISON CENTER or doctor / physician if you feel unwell.

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### Section 5. Firefighting Measures

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**Specific Hazards in Case of Fire:** Highly flammable liquid and vapour. Avoid inhalation of material or combustion by-products (carbon oxide).

**Fire Extinguishing Media:** Regular dry chemical, carbon dioxide, alcohol-resistant foam

**Unsuitable Extinguishing Media:** Material is lighter than water and a fire may be spread by the use of water.

**Special Protective Equipment and Precaution for Firefighters:** Keep personal removed from and upwind of fire. Prohibited from entering into locations around the fires. Cool container with water spray. Wear self-contained breathing apparatus. Wear full protective equipment.

**Unusual Fire & Explosion Hazards:** No information available.

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### Section 6. Accidental Release Measures

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**Personal Precautions:** Remove all sources of ignition. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Protective Equipment:** Wear appropriate personal protective equipment (e.g. safety goggles, protective gloves, dust respirators)

**Environmental Precautions:** Discharge into the environment must be avoided. Do not let product 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

<b>Handling Conditions:</b>	Avoid contact with skin and eyes or clothing. Avoid inhalation of vapor or mist. Wash thoroughly after handling. Use spark-proof tools and explosion-proof equipment. Good ventilation is needed at work area. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
<b>Storage Conditions:</b>	Store in a well-ventilated place and in a cool dry place. Combustible. Protect from (strong) oxidizing materials. Package in an epoxy coating steel drum.

## Section 8. Exposure Control/Personal Protection

<b>Exposure Limits:</b>	MCH: 400ppm ACGIH TLV-TWA BuOAc: 150ppm ACGIH TLV-TWA 2-BuOH: 100ppm ACGIH TLV-TWA
<b>Appropriate engineering controls:</b>	Provide appropriate exhaust ventilation at places where mist and vapour is formed.
<b>Personal protective equipment:</b>	
Respiratory Protection:	Chemical cartridge respirator.
Hand Protection:	Chemical resistant gloves.
Eye Protection:	Use safety glasses. If dust exposure causes eye discomfort, use chemical goggles.
Skin and Body Protection:	Wear appropriate chemical resistant clothing and boots.
Other Protective 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>	Viscous liquid
<b>Color:</b>	White cloudy
<b>Odor:</b>	Sweet odor
<b>Odor Threshold:</b>	No information available
<b>pH:</b>	Not applicable
<b>Specific Gravity (77°F):</b>	MCH:0.7694/72°F (20°C), BuOAc:0.88/72°F (20°C), 2-BuOH:0.808/72°F (20°C)
<b>% Volatile by Weight:</b>	~80
<b>Melting Point:</b>	No information available
<b>Freezing Point:</b>	MCH : -197°F (-127°C) , BuOAc: -106.6°F (-7°C)
<b>Boiling point:</b>	MCH: 214°F (101°C) , BuOAc: 257-261°F (125-127°C), 2-BuOH: 210°F (100°C)
<b>Flash Point:</b>	MCH: 21.2°F (-6.0°C) (OC), BuOAc: 72°F (22°C)(CC), 2-BuOH: 75°F (24°C)
<b>Evaporation Rate (BuAc=1):</b>	No information available
<b>Flammability Limits:</b>	MCH: 1.2 to 6.7% by volume, BuOAc: 1.4 to 7.6% by volume 2-BuOH: 1.7 to 9.0% by volume
<b>Explosion Limits:</b>	No information available
<b>Vapor Pressure (mmHg):</b>	MCH : 5.73kPa / 77°F(25°C), BuOAc : 1.2kPa/68 °F(20°C)
<b>Vapor Density (Air=1):</b>	MCH : 3. 4, BuOAc: 4.0, 2-BuOH: 2.6
<b>Solubility:</b>	Insoluble in water
<b>Partition Coefficient:</b>	MCH: log Pow 3.61, BuOAc: log Pow 1.78, 2-BuOH: log Pow 0.6
<b>Auto-ignition Temperature:</b>	MCH: 473°F(24°), BuOAc: 759-797°F(404-425°C), 2-BuOH: 763°F(406°C)

**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. Containers may rupture or explode if exposed to heat.  
**Incompatible Materials:** Oxidizing (strong) materials.  
**Hazardous Decomposition Products:** Thermal decomposition products: Oxides of carbon

## Section 11. Toxicological Information

### Primary Routes of Entry:

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

Inhalation: Mist is harmful if inhaled. Vapor may be harmful if inhaled.  
Ingestion: Harmful if swallowed.  
Skin: No information available.  
Eyes: Causes eye irritation.

**Signs and Symptoms of Exposures:** No information available

### Acute Toxicity:

MCH : oral-rabbit LD50 4000-4500mg/kg  
oral-mouse LD50 1200mg/kg  
oral-rat LD50 >3200mg/kg  
dermal-rabbit LD50 >86700mg/kg  
inhalation-mouse (vapour) LC50 36.9mg/L/2hours  
BuOAc : oral-rat LD50 14.13g/kg  
dermal-rabbit LD50 17600mg/kg  
inhalation-rat (vapour) LC50 2000ppm (9.5mg/L)  
inhalation-rat(mist) LC50 391ppm (1.85mg/L)  
2-BuOH : oral-rat LD50 6500mg/kg  
oral-rat LD50 2200mg/kg  
inhalation-rat (vapour) LC50 16000ppm/4hours

### Skin corrosion/irritation

Direct contact may cause irritation.  
MCH : skin-rabbit mild  
BuOAc: human mild

### Eye damage/eye irritation

Contact with fumes and the liquid may cause irritation.  
MCH: eyes-rabbit mild  
BuOAc: eyes-rabbit moderate  
2-BuOH: rabbit-cornea and iris adversely affect

### Chronic Toxicity:

No information available

### Respiratory or Skin Sensitization:

No information available

### Mutagenicity:

No information available

### Specific target organ toxicity (single exposure)

May cause damage to central nervous system.  
May cause drowsiness or dizziness.  
MCH: Anesthetic actives were confirmed in an inhalation exposure test using rabbits.  
BuOAc: Central nervous system adverse effects were observed by the human data. Showed pulmonary edema and respiratory irritation due to

animal testing.

2-BuOH : Anesthetic actions is seen in humans and mice according to EHC 65 (1987) inhalation exposure. Although central nervous system depression symptoms were seen in mice described in high inhalation exposure levels

**Carcinogenicity:**

IARC:	N.D.	NTP:	N.D.	OSHA:	N.D.
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**Section 12. Ecological Information**

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<b>Ecotoxicity (Aquatic and Terrestrial):</b>	Toxic to aquatic life with a long lasting effects MCH: Crustacea(brine shrimp) LC50 3300 µg/L/96H Oryzias latipes LC50 5.02mg/L/48H BuOAc: Crustacea (Daphnia magna) LC50 32000µg/L/48H 2-BuOH: Crustacea (Daphnia magna) EC50 2300mg/L/24H
<b>Bioaccumulative Potential</b>	It is presumed that bioaccumulation is low. MCH: BCF=321, BuOAc: Log Pow 1.78
<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>	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.
<b>Disposing of Contaminated Packaging:</b>	Dispose as unused product. Contact a licensed professional waste disposal service to this material

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**Section 14. Transport Information**

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<b>Land Transport (DOT):</b>	
UN Number:	1866
UN Proper Shipping Name:	Resin solution
Transport Hazard Class:	3
Packing Group:	II
<b>Sea Transport (IMDG):</b>	
UN Number:	1866
UN Proper Shipping Name:	Resin solution
Transport Hazard Class:	3
Packing Group:	II
<b>Air Transport (IATA):</b>	
UN Number:	1866
UN Proper Shipping Name:	Resin solution
Transport Hazard Class:	3
Packing Group:	II
<b>Environmental Hazards (e.g., Marine pollutant):</b>	Yes

## Section 15. Regulatory Information

### International Inventories:

TSCA (USA):	Yes
DSL (Canada):	Yes (NDSL)
ENCS (Japan)	Yes
REACH (Europe):	No
IECSC (China):	No
KECL (Korea):	No
PICCS (Philippines):	No
AICS (Australia):	No
ERMA (New Zealand):	No information available

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

### NFPA Rating

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

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 Revised By ..... Advanced Polymer, Inc.

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