



**ADVANCED POLYMER, INC.**

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## Hardlen® EH-801

HARDLEN EH-801 is a solvent free, water-based binder/primer that provides strong adhesion to polypropylene and polypropylene/EPDM substrates. When used as a primer on polypropylene, the applied topcoat will have a high degree of resistance to water and hydrocarbons.

### CHARACTERISTICS

- Superior adhesion to PP, PP/EPDM without pretreatment.
- Excellent adhesion to topcoat paint such as polyurethane or polyester-melamine.
- Tough, transparent film after coating and drying.

### APPLICATION

The following is recommended for application:

1. Wash surface of polypropylene substrate with IPA solution.
2. Use HARDLEN EH-801 as supplied or dilute with water if lower viscosity is required.
3. Spray HARDLEN EH-801 onto substrate (dry thickness  $\approx 6\text{g}/\text{m}^2$ ). Dry at  $80^\circ\text{C}$  for 10 minutes.
4. Spray apply basecoat and clear coat, wet on wet, (basecoat dry thickness  $\approx 15\text{g}/\text{m}^2$  / clear coat dry thickness  $30\text{g}/\text{m}^2$ ).
5. Bake at  $100^\circ\text{C}$  for 20 minutes; allow to stand at  $25^\circ\text{C}$  for 48 hours.

### PACKAGING

HARDLEN EH-801 is available in 8 oz. samples and 397-lb drums.

### Advanced Polymer, Inc.

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**I want to know more!**

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### TYPICAL PROPERTIES

Appearance:	Milky tan emulsion
Resin Content:	30%
Chlorine Content:	16%
pH:	7.4
Molecular Weight: (of Base Resin)	45,000
Viscosity:	<100 cps
Particle Size:	<0.3 $\mu\text{m}$

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Revised July 7, 2010

## HARDLEN® EH-801

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### Section I Product Identity

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Product Name: HARDLEN EH-801  
Chemical Name/Family: Modified chlorinated polypropylene emulsion  
CAS#: N.A. Mixture  
24 Hour Emergency Number 800-424-9300  
24 Hour Chemtrec Number 800-424-9300

All ingredients are listed in EPA's TSCA list of chemical substances

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### Section II Hazardous Components/Composition Information

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<b>CHEMICAL</b>	Modified chlorinated polypropylene				
CAS# 68609-36-9	USOS:	TWA :	STEL :	PERCENT: ≈23	
<b>CHEMICAL</b>	Emulsifier				
CAS# Registered	USOS:	TWA :	STEL :	PERCENT: ≈7	
<b>CHEMICAL</b>	Epoxy resin (stabilizer)				
CAS# Registered	USOS:	TWA :	STEL :	PERCENT: <1	
<b>CHEMICAL</b>	2-Amino-2-methyl-propanol				
CAS# 124-68-5	USOS:	TWA :	STEL :	PERCENT: <1	
<b>CHEMICAL</b>	Water				
CAS#:	USOS:	TWA :	STEL :	PERCENT: ≈70	

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### Section III Physical and Chemical Properties

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Boiling Point	>212°F
Specific Gravity (H <sub>2</sub> O=1)	1.02
Vapor Pressure	N/A
Vapor Density (Air=1)	N/A
Percent Volatile By Weight	70
Evaporation Rate (BuAc=1)	N/A
Solubility in Water	Soluble
Appearance and Odor	Milky tan emulsion, slight odor.

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### Section IV Fire and Explosion Hazard Data

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Flash Point (Method Used)	N/A
Flammable Limits in Air (% By Volume)	N/A
Extinguishing Media	Foam, Dry Chemical, CO <sub>2</sub>
Special Fire Fighting Procedures:	Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment.
Unusual Fire and Explosion Hazard	None

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## Section V Reactivity Data

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Stability	Stable
Conditions to Avoid	Avoid heat, flames, sparks and other sources of ignition. Keep container tightly closed. Keep from freezing.
Incompatibilities	Avoid contact with strong oxidizing agents, acids and peroxides.
Hazardous Decomposition or By Products	Polymer decomposition may produce chlorine compounds.
Hazardous Polymerization	May Not Occur

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## Section VI Health Hazard Data

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Primary Routes of Entry	Inhalation: No	Dermal: Yes	Ingestion: Yes
Acute Health hazard	No information available		
Chronic Health Hazard	No information available		
Carcinogenicity	No information available		
NTP: No	IARC Monograph: No	OSHA Regulated: No	

### Signs and Symptoms of Exposure:

Skin Contact	May be harmful.
Eye Contact	May cause irritation.
Ingestion	Although ingestion is unlikely, liquid would irritate upper digestive tract if swallowed.
Inhalation	May be harmful if inhaled.

### Medical Condition Generally Aggravated by Exposure

### Emergency First Aid Procedures

Eyes	Immediately flush eyes with plenty of water. Call a physician.
Skin	Immediately wash skin with soap and water. Wash contaminated clothing before reuse.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
Inhalation	Immediately remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Please note: Symptoms may be delayed; prompt medical attention may be required. Call a physician.

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## Section VII Precautions for Safe Handling and Use

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Steps to be Taken in Case the Material is Released or Spilled:

Do not touch spilled material. Soak up with sawdust, sand, oil dry or other absorbent material.

Waste Disposal Method: As in accordance with EPA and local regulations.

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## Section VIII Special Precautions

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Precautions to be Taken in Handling and Storage:

Store in a well-ventilated place at temperatures between 5°C and 40°C. Keep container tightly closed.

\*\*\*Agitate container prior to use.\*\*\*

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## Section IX Control Measures

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### Respiratory Protection

Ventilation	Local exhaust	Recommended
	Mechanical	
	Special	
	Other	

Eye Protection                      Safety glasses should be worn

Protective Gloves                  Rubber or plastic gloves should be worn

Protective Clothing                Rubber apron

Other Protective Equipment      NIOSH approved respirator as needed

Other Precautions                  Wash hands after use.

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## Section X SARA Title III

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### SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of SECTION 331 of the EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 and of 40 CFR 371

CAS #

Chemical Name

Percent by Weight

THIS INFORMATION MUST BE INCLUDED IN ALL MSDS'S THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL

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## Section XI Transportation Information

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### SHIPPING INFORMATION

Hardlen EH-801 is not regulated by DOT

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### Hazard Ratings

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Health                      1

Flammability              1

Reactivity                 0

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Date Prepared ..... March 20, 2005

Prepared By ..... API

Date Revised ..... November 13, 2009

Revised By ..... API

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