



ADVANCED POLYMER, INC.

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Hardlen[®] CY-9122P

HARDLEN CY-9122P is a maleic anhydride modified chlorinated polypropylene resin.

CHARACTERISTICS

- Superior adhesion to PP, PP/EPDM and TPO.
- Excellent interlayer adhesion between primer and topcoat paint (polyester, polyurethane paint).

APPLICATION

- Insoluble in polar solvents, but soluble in aromatic and aliphatic cyclic hydrocarbons and chlorinated hydrocarbon solvents.
- Can be used as a vehicle for polypropylene ink.

PACKAGING

HARDLEN CY-9122P is available in 8 oz. samples and 44-lb bags.

Hardlen[®] is a registered trademark of Toyobo Co. Ltd

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I want to know more!

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TYPICAL PROPERTIES

Appearance:	Slightly yellowish pellet
Chlorine Content:	22%
Maleic Anhydride Content:	1.6%
Melt Point:	180°F
Molecular Weight:	60,000
Solution Viscosity: (20% toluene solution)	25cps

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HARDLEN® CY-9122P

Section 1 - Product Identity

Product Name: HARDLEN CY-9122P
 Chemical Name/Family: Maleic anhydride modified chlorinated polypropylene
 Product Use: Adhesion promoter
 24 Hour Emergency Number: 800-424-9300
 24 Hour Chemtrec Number: 800-424-9300

Section 2 - Composition/Information on Ingredients

CHEMICAL	CAS #	TWA	STEL	Ceiling	Percent
Modified chlorinated polypropylene with maleic anhydride	68609-36-9				95
[[4-(1,1-Dimethylethyl)phenoxy]methyl]oxirane	3101-60-8				5
Chloroform	67-66-3				0.8 (Average)

OSHA Hazardous Component (29CFR1910.1200): Chloroform is hazardous component.

Section 3 - Hazard Identification

Emergency Overview: No information available
 Color: Yellowish brown
 Physical State: Pellet
 Odor: Distinct
 Primary Routes of Entry: Inhalation: No Dermal: Yes Ingestion: Yes
 Acute Health Hazard: May cause irritation to the respiratory tract.
 Chronic Health Hazard: No information available
 Carcinogenicity: No information available
 NTP: No IARC Monograph: No OSHA Regulated: No
 Potential Health Effects:
 Skin: May cause skin irritation
 Eye: May cause eye irritation
 Ingestion: No information available.
 Inhalation: May be harmful if inhaled.
 Medical Condition Generally Aggravated by Exposure: No information available

Section 4 - First Aid Measures

Skin Contact:	Immediately wash skin with soap and water. Wash contaminated clothing before reuse. Get medical attention if needed.
Eye Contact:	Immediately flush eyes with plenty of water. Call a physician.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call local poison control center or physician immediately.
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.

Section 5 - Fire-Fighting Measures

Flash Point (method used):	N/A
Flammable Limits in Air (% by Volume):	N/A
Fire & Explosion Hazard:	Moderate fire hazard when exposed to heat or flame.
Extinguishing Media:	Foam, Dry Chemical, CO ₂ , Water. Large fires: Use regular foam or flood with fine water spray.
Special Fire Fighting Procedures:	Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment. Move container from fire area if it can be done without risk. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Cool container with water spray.
Unusual Fire and Explosion Hazard:	None
Hazardous Decomposition Products:	Thermal decomposition products: oxides of carbon, chlorine.

HAZARD CLASSIFICATION

Health Hazard:	1
Flammability:	1
Reactivity:	0

Section 6 - Accidental Release Measures

Methods for Cleaning Up:	Soak up with sawdust, sand, oil dry or other absorbent material.
Environmental Precautions:	Collect spilled material in appropriate disposal. Keep out of water supplies and sewers.
Personal Precautions:	Do not touch spilled material. Use personal protective equipment. Isolate hazard and deny entry. Wash hands thoroughly after handling.

Section 7 - Handling & Storage

Handling Conditions:	Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Use spark proof tools and equipment. Use only clean, dry utensils in handling.
Storage Conditions:	Store at room temperature. Store in a cool dry place. Keep separated from incompatible substances. Store in a tightly closed container. Grounding and bonding required.

Section 8 - Exposure Controls/Personal Protection

Engineering Controls:	Provide emergency eye wash fountain and quick drench shower in work area.
Ventilation:	Provide local exhaust ventilation system.
Respiratory Protection:	Approved air-purifying respirator with organic vapor cartridge or canister.
Eye Protection:	Wear Safety glasses. Wear coverall, chemical goggles.
Skin Protection:	Chemical resistant gloves and clothing.
Other Protective Equipment:	NIOSH approved respirator as needed.
Work Hygienic Measures:	Wash hands after use.
Exposure Guidelines:	Not established.

Section 9 - Physical and Chemical Properties

Boiling Point:	N/A
Specific Gravity (H ₂ O=1):	N/A
Vapor Pressure:	N/A
Vapor Density (Air=1):	N/A
Percent Volatile by Weight:	N/A
Evaporation Rate (BuAc=1):	N/A
Solubility in Water:	Insoluble
Appearance and Odor:	Yellowish brown pellet with distinct odor.

Section 10 - Stability and Reactivity

Stability:	Stable: X	Unstable:
Condition to Avoid:	Avoid heat, flames, sparks and other sources of ignition. Avoid with incompatible materials.	
Incompatibilities:	Combustible materials, acids, oxidizing materials.	
Hazardous Decomposition or By-Products:	Thermal decomposition products: oxides of carbon, chlorine	
Hazardous Polymerization:	May Occur:	May Not Occur: X

Section 11 - Toxicological Information

Acute Toxicity:	May cause irritation to the respiratory tract.
Chronic Toxicity:	No information available.
Eye Irritation:	May cause eye irritation.
Skin Irritation:	May cause skin irritation.
Inhalation:	No information available.
Ingestion:	No information available.
Sensitization:	No information available.
Mutagen Effects:	No information available.

Section 12 - Ecological Information

Ecotoxicity Persistence and Degradability: No information available
Bioaccumulative Potential: No information available

Section 13 - Disposal Considerations

Waste Disposal Method: Dispose in accordance with all applicable regulations. Dissolve or mix with combustible solvent and burn in a chemical incinerator equipped with an after burn scrubber. Do not dump this product into sewers, on the ground or into any body of water.

Section 14 - Transport Information

Land Transport (DOT, ADR, RID): Not regulated
Sea Transport (IMDG): Not regulated
Air Transport (ICAO, IATA): Not regulated

Section 15 – Regulatory Information

International Inventories

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

Federal Regulations

SARA 313	Chloroform
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

California Proposition 65: This product contains the following Proposition 65 chemicals

<u>Chemical Name</u>	<u>CAS#</u>	<u>Percent</u>
Chloroform	67-66-3	0.8% (Average)

Section 16 - Other Information

Date PreparedJuly 23, 2005
Prepared ByAPI
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Revised ByAPI

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