



ADVANCED POLYMER, INC.

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HARDLEN[®] 16LP

HARDLEN 16LP is a solvent soluble chlorinated polypropylene adhesion promoter. HARDLEN 16LP is effective as a primer, coating additive or adhesive for PP, EPDM or TPO.

CHARACTERISTICS

- Superior adhesion to PP or PP/EPDM
- Tough, transparent film after coating and drying

APPLICATION

HARDLEN 16LP is generally insoluble in polar solvents, but soluble in aromatic, aliphatic cyclic hydrocarbons and chlorinated hydrocarbon solvents.

HARDLEN 16LP may be used as a vehicle for polypropylene ink.

PACKAGING

HARDLEN 16LP is supplied as 100% resin in pellet form and is available in 8 oz. samples or 110-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
Orientation:	Isotactic
Chlorine Content:	32%
Resin Content:	100%
Solution Viscosity: (15% toluene solution)	2000 - 8000 cps
Softening Point:	89°C
Molecular Weight:	150,000

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Revised July 7, 2010

HARDLEN® 16LP

Section I Product Identity

Product Name: HARDLEN 16LP
Chemical Name/Family: Modified Chlorinated polypropylene
CAS# 68442-33-1
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

Section II Hazardous Components/Composition Information

CHEMICAL	Chloroform			
CAS#: 67-66-3	USOS:	TWA :	STEL :	PERCENT: 2

Section III Physical and Chemical Properties

Boiling Point	N/A
Specific Gravity (H ₂ O=1)	>1
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	Not Soluble
Appearance and Odor	Translucent pellet.

Section IV Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A
Flammable Limits in Air (% By Volume)	N/A
Extinguishing Media	Foam, Dry Chemical, CO ₂
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

Section V Reactivity Data

Stability	Stable
Conditions to Avoid	Store in a well ventilated place at temperatures below 120°F. Keep container tightly closed. Keep from freezing
Incompatibilities	Avoid contact with strong oxidizing agents and acids. Aluminum at high temperatures.
Hazardous Decomposition or By Products	Combustion may produce CO ₂ , CO and toxic vapors.
Hazardous Polymerization	May Not Occur

Section VI Health Hazard Data

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

Signs and Symptoms of Exposure

Skin Contact	Prolonged and repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis.
Eye Contact	Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.
Ingestion	Although ingestion is unlikely, liquid would irritate upper digestive tract if swallowed. May cause severe irritation.
Inhalation	No information is available.

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.

Section VII Precautions for Safe Handling and Use

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

Soak up with sawdust, sand, oil dry or other absorbent material.

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

Section VIII Special Precautions

Precautions to be Taken in Handling and Storage:

Store in a well-ventilated place at temperatures below 120°F. Keep container tightly closed. Keep from freezing.

Section IX Control Measures

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.	

Section X SARA Title III

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 #	67-66-3
Chemical Name	Chloroform
Percent by Weight	2

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

Section XI Transportation Information

SHIPPING INFORMATION

Hazard Ratings

Health	1
Flammability	1
Reactivity	0

Date Prepared October 19, 2005
Prepared By API
Date Revised November 3, 2009
Revised By API

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