

Material Safety Data Sheet

Hazard Rating: Least - 0 Slight - 1 Moderate - 2 High - 3 Extreme - 4
HMIS H-2, R-1, F-2

Section 1

ASTC Polymers, Inc., 3207 West Warner Avenue, Santa Ana, CA 92704

714-966-2893 - Fax 714-966-9105

REVISED: 12/17/07

Emergency Phone: **INFOTRAC** 24hr – 1-800-535-5053

Product Name: **Penatron 4034 Part A**

Section 2 Hazardous Ingredients/Sara III Information

Hazardous

Components	CAS #	Occupational Exposure OSHA PEL	Limits ACGIH TLV MFG	Vapor Press. mm Hg/temp
* 4,4' - Diphenylmethane-Diisocyanate	101-68-8	.005 ppm	.005 ppm	0.0 68F
* Napthelene	91-20-3	10 ppm	10 ppm	
Petroleum Hydrocarbon	64742-94-5	n/e	n/e 100 ppm	2.3 392F

* Indicates toxic chemical subject to the reporting requirements of section 313 of Title III and of 40 CFR 372

Section 3 Physical & Chemical Characteristics

Boiling Pt: > 300° F Specific Gravity (H₂O=1): 1.0
Vapor Density: N/A Evaporation: N/A
Solubility in Water: Reacts with Water Appearance and Odor: Mild Aromatic odor - thin liquid

Section 4 Fire and Explosion Hazard Data

Flash Point: 245° F Method Used: PMCC
Flammable Limits in air by volume - lower: N/A Upper: N/A
Extinguishing Media: Foam CO₂ Dry Chemical
Special Fire Fighting Procedures: Wear self contained breathing apparatus with positive pressure mode, face piece, boots, gloves (Neoprene), goggles, protective clothing.
Unusual Fire and Explosion Hazards: Closed containers may rupture due to high temperature and induced pressure.

Section 5 Reactivity Data

Stability: Stable

Conditions To Avoid: Heat, open flame and sparks.

Incompatibility - materials to avoid: Strong oxidizing Agent, Water, Alcohol

Hazardous Decomposition / By Products: Carbon Dioxide, Carbon Monoxide, Nitrogen Oxide trace amounts of Hydrogen Cyanide.

Hazardous Polymerization: Will not occur.

Section 6 Health Hazard Data

Inhalation Health Risks and Symptoms of Exposure: Inhalation of mists and vapors can cause dry throat and cough, dizziness, nausea, headache and fatigue. MDI can induce respirator sensation with asthma- like conditions/symptoms.

Skin and Eye Contact Health Risks and Symptoms of Exposure: Repeated skin contact may cause irritation. Eye contact will cause irritation - flush with water for 15 minutes and get medical assistance.

Skin Absorption Health Risks and Symptoms of Exposure: Repeated skin contact can cause reddening, swelling and blistering.

Ingestion Health Risks: Oral toxicity low level, can cause nausea, vomiting, diarrhea, and/or burns mouth.

Carcinogenicity: NTP: NO IARC MONOGRAPHS: NO OSHA REGULATED: NO
Medical conditions generally aggravated by exposure: Skin and eyes sensitization.

Emergency and First Aid Procedures: Eye: Flush with water for 15 minutes. Inhalation: Take person to fresh air. If difficulty in breathing persists provide oxygen and get medical attention immediately. Skin Contact: Wash with soap and water. Ingestion: Do not induce vomiting. Consult Physician immediately.

Section 7 Precautions: Safe Handling & Use

Spilled Product: Eliminate ignition sources like heat, open flame and sparks, ventilate area of spill and dike area. Cover the spill with inert absorbent and place into proper containers.

Disposal: Dispose of per Federal, State and local law permits.

Storage: Keep in cool dry area, away from heat and open flame or sparks.

Other Precautions: Individuals with respirator problems to isocyanates must not be exposed to vapors or spray mist containing isocyanates.

Section 8 Control Measures

Provide adequate ventilation and keep airborne concentration below TLV limit. NIOSH/MSH or approved respirator with organic cartridge recommended for acid/organic vapor when airborne exposure is excessive.

Ventilation: Local Exhaust: Recommended Mechanical: Recommended

Protective Gloves: Chemical Resistant Natural Rubber

Eye Protection: Chemical Safety Goggles

Clothing: Long sleeves, Lab coat or aprons.

Avoid unnecessary exposure to vapors and mists. Use protective equipment and work with an eye wash station nearby.

Regulatory Information: TSCA (Toxic Substances Control Act Chemical Substance Inventory); All components of this product are listed on the TSCA inventory.

CERCLA (Comprehensive Response, Compensation, and Liability Act); under CERCLA, certain releases to the air, land or water may be reportable to the National Response Center at (800) 424-8802. Circumstances surrounding the release and cleanup determine report ability. This product is subject to CERCLA reporting requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act); Under the provision of Title III Section 313 of 1986, this product contains chemicals which do not exceed the minimum reporting level established by the above regulation.

Proposition 65 (California Save Drinking Water & Toxic Enforcement Act of 1986);

Based on information currently available, this product contains chemicals showing limited evidence for carcinogenicity in people and/or sufficient evidence in animals.
DOT Information: Not Regulated

<i>Disclaimer</i>

The data set forth in this sheet is based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the ASTC products. No warranty is made with respect to the accuracy of the information provided by this company's suppliers and disclaims all liability of reliance thereof.

DOT: This substance is considered non hazardous for air transport.

IATA: This substance is considered non hazardous for air transport.

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Emergency Phone: **INFOTRAC** 24hr – 1-800-535-5053

Product Name: **Penatron 4034 Part B**

Section 2 Hazardous Ingredients/Sara III Information

Hazardous

Components	CAS #	Occupational Exposure	Limits	Vapor Press.
		OSHA PEL	ACGIH TLV MFG	mm Hg/temp
* Naphthalene	91-20-3	10 ppm	10 ppm	
Petroleum Hydrocarbon				
	64742-94-5	n/e	n/e	100 ppm 2.3 392F

* Indicates toxic chemical subject to the reporting requirements of section 313 of Title III and of 40 CFR 372

Section 3 Physical & Chemical Characteristics

Boiling Pt: > 300° F	Specific Gravity(H ₂ O=1): 1.0
Vapor Density: Heavier than air	Evaporation: Slower than ether
Solubility in Water: N/A	Appearance and Odor: Mild Aromatic odor - thin liquid

Section 4 Fire and Explosion Hazard Data

Flash Point: 245° F Method Used: PMCC

Flammable Limits in air by volume - lower: N/A Upper: N/A

Extinguishing Media: Foam CO₂ Dry Chemical

Special Fire Fighting Procedures: Wear self contained breathing apparatus with positive pressure mode, face piece, boots, gloves (Neoprene), goggles, protective clothing.

Unusual Fire and Explosion Hazards: Closed containers may rupture due to high temperature and induced pressure.

Section 5 Reactivity Data

Stability: Stable

Conditions To Avoid: Heat, open flame and sparks.

Incompatibility - materials to avoid: Isocyanates and Strong oxidizing Agent Hazardous

Decomposition / By Products: Carbon Dioxide, Carbon Monoxide, Nitrogen Oxide trace amounts of Hydrogen Cyanide.

Hazardous Polymerization: Will not occur.

Section 6 Health Hazard Data

Inhalation Health Risks and Symptoms of Exposure: Inhalation of mists and vapors can cause dry throat and cough, dizziness, nausea, headache and fatigue. MDI can induce respirator sensation with asthma- like conditions/symptoms.

Skin and Eye Contact Health Risks and Symptoms of Exposure: Repeated skin contact may cause irritation. Eye contact will cause irritation - flush with water for 15 minutes and get medical assistance.

Skin Absorption Health Risks and Symptoms of Exposure: Repeated skin contact can cause reddening, swelling and blistering.

Ingestion Health Risks: Oral toxicity low level, can cause nausea, vomiting, diarrhea, and/or burns mouth.

Carcinogenicity: NTP: NO IARC MONOGRAPHS: NO OSHA REGULATED: NO
Medical conditions generally aggravated by exposure: Skin and eyes sensitization.

Emergency and First Aid Procedures: Eye: Flush with water for 15 minutes. Inhalation: Take person to fresh air. If difficulty in breathing persists provide oxygen and get medical attention immediately. Skin Contact: Wash with soap and water. Ingestion: Do not induce vomiting. Consult Physician immediately.

Section 7 Precautions: Safe Handling & Use

Spilled Product: Eliminate ignition sources like heat, open flame and sparks, ventilate area of spill and dike area. Cover the spill with inert absorbent and place into proper containers.

Disposal: Dispose of per Federal, State and local law permits.

Storage: Keep in cool dry area, away from heat and open flame or sparks.

Other Precautions: Individuals with respirator problems to isocyanates must not be exposed to vapors or spray mist containing isocyanates.

Section 8 Control Measures

Respiratory Protection: None required under normal/ambient conditions where work areas are adequately ventilated. If TLV of the product or any component is exceeded, a MSHA/NIOSH approved respirator is recommended in the absence of proper environmental control.

Ventilation: Good general ventilation should be sufficient for most conditions.

NIOSH/MSH or approved respirator with organic cartridge recommended for acid/organic vapor when airborne exposure is excessive.

Protective Gloves: Chemical Resistant Natural Rubber

Eye Protection: Chemical Safety Goggles

Clothing: Long sleeves, Lab coat or aprons.

Avoid unnecessary exposure to vapors and mists. Use protective equipment and work with an eye wash station nearby.

Regulatory Information: TSCA (Toxic Substances Control Act Chemical Substance Inventory); All components of this product are listed on the TSCA inventory.

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