

# MATERIAL SAFETY DATA SHEET

Product Name: Blue Fill  
Product Code: 4036

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Blue Part B (Resin)

Manufactured by: RPM Technology, LLC  
P.O. Box 33186  
Reno, NV 89533  
775-473-8706

Distributed by: Blueline Technologies, LLC  
265 Burns Drive  
Yuba City, CA 95991  
530-671-5060

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC day or night  
Domestic North America 800.424.9300 International 703.527.3887

TSCA Inventory: All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Canadian DSL: All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>CAS#</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>% by Wgt</u>
Polyoxyalkyleneamine	904-610-0	Not Determined	Not Determined	
N,N-Dialkylamino-diphenylmethane	528 5-60-9	Not Determined	Not Determined	
Propylene Carbonate	108-32-7	Not Determined	Not Determined	
Gamma-Glycidoxypropyltrimethylsiloxane	253 0-83-8	Not Determined	Not Determined	
Pigment Dispersion	N/A	Not Determined	10mg/m3	
Alkali-aluminosilicate	N/A	10mg/m3	6.0mg/m3	
Castor Oil	8001-79-4	Not Determined	Not Determined	

## 3. HAZARDS IDENTIFICATION

Emergency Overview:

Routes of Entry:

<u>Route</u>	<u>Entry Risk</u>
<b>Inhalation</b>	Possible
<b>Ingestion</b>	Possible
<b>Skin Contact</b>	Possible
<b>Eye Contact</b>	Possible

Potential Health Effects:

<b>Inhalation</b>	May cause nausea and respiratory tract irritation. May cause respiratory sensitization in susceptible individuals.
<b>Ingestion</b>	Moderately toxic, cause abdominal cramps, nausea, swelling.
<b>Skin Contact</b>	Product is a slight skin irritant. May Cause swelling and redness.
<b>Eye Contact</b>	Mild eye irritant. Vapors slightly uncomfortable. Splashes irritating and painful.

Acute Health Hazards:

Acute ingestion causes burning of the mouth, throat, and stomach with abdominal pain. Acute inhalation of vapors and mist can cause nasal discharge and pain in the eyes.

Chronic Health Hazards:

If misted or at high concentrations, may cause pallor, nausea, anesthetic or narcotic effects.

Medical Conditions

Skin and eye sensitization. Depending on individual skin sensitivity, chronic or prolonged exposure may result in irritation, blistering, burning and peeling of skin layers.

Generally Aggravated by Exposure:

Carcinogenicity:

OSHA: No data    ACGIH: No data    NTP: No data    IARC: No data

Other:

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## 4. FIRST AID MEASURES

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, seek medical attention.

Skin Contact: Remove from skin immediately. Rinse with clean water for 20-30 minutes. Use soapy water if needed. If redness, itching, or a burning sensation develops, seek medical attention.

Ingestion: Do NOT induce vomiting! Dilute with water and seek medical attention immediately.

Inhalation: Move victim to fresh air immediately. Give oxygen and seek medical attention.

## 5. FIRE FIGHTING MEASURES

Flammable Limits: Class IIIB  
Flash Point, (Method Used): >200° Fahrenheit (Pensky-Martens Closed)

Auto Ignition Temperature: No Data

NFPA Hazard Rating:	Health: 2	<u>Hazard Scale</u>	<u>Protective Equipment</u>
	Flammability: 1	0=LEAST	A=SAFETY GLASSES
	Reactivity: 0	1 =SLIGHT	B=SAFETY GLASSES, GLOVES
	Other: B	2= MODERATE	C=SAFETY GLASSES, GLOVES AND APRON
		3=HIGH	
		4=EXTREME	

HMIS Hazard Rating: Health: 3  
Flammability: 1  
Reactivity: 0  
Protection: B

Extinguishing Media: Foam/Carbon dioxide/Dry chemical/Water fog

Special Fire Fighting Procedures: Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products exist.

Unusual Fire and Explosion Hazards: Closed containers may rupture due to build-up of pressure when exposed to extreme heat.

Explosion Hazards:

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, nitrogen oxides.

## 6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Standard hydrocarbon spill procedures apply to this product

## 7. HANDLING AND STORAGE

Handling & Storage Precautions: Prevent all skin and eye contact. Avoid breathing vapors. Re-seal partially used containers. Wash with soap and water before eating or drinking. Protect from moisture contamination. Exothermic generation of carbon dioxide may cause dangerous pressure. Keep away from all ignitable sources as well as extreme heat.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Adequate ventilation required. Local exhaust may be required in some areas. Special exhausting generally not required. Mechanical exhaust usually adequate.

Respiratory Protection: Respiratory masks should be worn at all times when adequate ventilation does not exist. A NIOSH/MSHA respirator is acceptable.

Eye Protection: Chemical tight goggles; full face shield if splashing is possible.

Skin Protection: Coveralls and impervious foot covering is recommended.

Other Protective Clothing or Equipment: Use impervious gloves, neoprene or rubber

Work/ Hygienic Practices: Good air flow in working area. Eyewash station and safety shower should be available. Gloves and respiratory equipment should be worn at all times

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gray or color of pigment additive

Odor: Slight ammonia odor

Physical State: Liquid

ph As Supplied: No Data

ph (Other): No Data

Boiling Point: 395° Fahrenheit

Melting Point: No data

Freezing Point: No Data

Vapor Pressure (mmHg) : No data

Vapor Density (Air=1): No data

Specific Gravity (Water=1): 1.05

Evaporation Rate (Butyl Acetate=1): Slower than

Solubility in Water: 1 - 10%

Percent Solids by Weight: 100%

Percent Volatile (grams/liter): By Weight: 0% By Volume: 0%

Volatile Organic Compounds (VOC) (grams/liter): With Water: 0% Without Water: 0%

Viscosity: 450 CPS @ 77°F (25°C)

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## 10. STABILITY AND REACTIVITY

Stability: Stable  
Conditions to Avoid (Stability): Avoid excessive heat, open flam, sparks and strong oxidizing agents. Protect from atmospheric moisture. Replace outage with inert dry nitrogen.  
Incompatibility (Materials to Avoid): Avoid strong oxidizers, acids.  
Hazardous Decomposition or Byproducts: Carbon dioxide, carbon monoxide, nitrogen oxides.  
Hazardous Polymerization: Will not occur under normal circumstances.  
Conditions to Avoid (Polymerization): Avoid incompatible reactants, especially strong bases, water or temperatures over 160° Centigrade.

## 11. TOXICOLOGICAL INFORMATION

Toxicological Information: No Data

## 12. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Use excess product in an alternate beneficial application. Dispose of according to current local, state and federal regulations.  
RCRA Hazard Class: Non-Regulate

## 13. TRANSPORT INFORMATION

### U.S. Department of Transportation

Proper Shipping Name: Polyol Resin  
Hazard Class: Non-Regulated, NOI  
ID Number:  
Packing Group:  
Label Statement:

### Water Transportation

Proper Shipping Name:  
Hazard Class: Non-Regulated, NOI  
ID Number:  
Packing Group:  
Label Statement:

### Air Transportation

Proper Shipping Name:  
Hazard Class: Non-Regulated, NOI  
ID Number:  
Packing Group:  
Label Statement:

### Other Agencies:

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## 14. REGULATORY INFORMATION

### U.S. Federal Regulations

TSCA (Toxic Substance Control Act): Section 12(b) Export Notification. This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States: There are no TSCA 12(b) Chemicals in this product.

CERCLA (Comprehensive Response Compensation and Liability Act): CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product: Chemical Name- See Section 2

SARA Title III (Comprehensive Response Compensation and Liability Act): This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

311/312 Hazard Categories: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard: See Section 3

313 Reportable Ingredients: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: Chemical Name- See Section 2

State Regulations: California Proposition 65. The chemical(s) noted below and contained in this product are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at <0.1%: There are no proposition 65 chemicals known to exist in this product.

International Regulations:

## 15. DOCUMENTARY INFORMATION

Ecological Information: No Data

## 16. DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Blue Fill Part A (Activator)

Manufactured by: RPM Technology, LLC  
P.O. Box 33186  
Reno, NV 89533  
775-473-8706

Distributed by: Blueline Technologies, LLC  
265 Burns Drive  
Yuba City, CA 95991  
530-671-5060

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC day or night  
Domestic North America 800-424-9300 International 703-527-3887

TSCA Inventory: All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Canadian DSL: All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>CAS#</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>% by Wgt</u>
Diphenylmethane Diisocyanate	101-68-8	Not Determined	02 ppm CeI	
Propylene Carbonate	108-32-7	Not Determined	Not Established	

## 3. HAZARDS IDENTIFICATION

Emergency Overview:

Routes of Entry:

<u>Route</u>	<u>Entry Risk</u>
<b>Inhalation</b>	Possible
<b>Ingestion</b>	Possible
<b>Skin Contact</b>	Possible
<b>Eye Contact</b>	Possible

Potential Health Effects:

<b>Inhalation</b>	May cause nausea and respiratory tract irritation. May cause respiratory sensitization in susceptible individuals.
<b>Ingestion</b>	Moderately toxic, cause abdominal cramps, nausea, swelling.
<b>Skin Contact</b>	Product is a slight skin irritant. May Cause swelling and redness.
<b>Eye Contact</b>	Mild eye irritant. Vapors slightly uncomfortable. Splashes irritating and painful.

Acute Health Hazards: Acute ingestion causes burning of the mouth, throat, and stomach with abdominal pain. Acute inhalation of vapors and mist can cause nasal discharge and pain in the eyes.

Chronic Health Hazards: If misted or at high concentrations, may cause pallor, nausea, anesthetic or narcotic effects.

Medical Conditions Generally Aggravated by Exposure: Skin and eye sensitization. Depending on individual skin sensitivity, chronic or prolonged exposure may result in irritation, blistering, burning and peeling of skin layers.

Carcinogenicity: OSHA: No data    ACGIH: No data    NTP: No data    IARC: No data  
Other:

## 4. FIRST AID MEASURES

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If redness, itching, or a burning sensation develops, seek medical attention.

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**Skin Contact:** Remove from skin immediately. Rinse with clean water for 20-30 minutes. Use soapy water if needed. If redness, itching, or a burning sensation develops, seek medical attention.

**Ingestion:** Do NOT induce vomiting! Dilute with water and seek medical attention immediately.

**Inhalation:** Move victim to fresh air immediately. Give oxygen and seek medical attention.

## 5. FIRE FIGHTING MEASURES

Flammable Limits: Class IIIB

Flash Point, (Method Used): >200° Fahrenheit (Pensky-Martens Closed)

Auto Ignition Temperature: No Data

NFPA Hazard Rating:	Health: 2	<u>Hazard Scale</u>	<u>Protective Equipment</u>
	Flammability: 1	0=LEAST	A=SAFETY GLASSES
	Reactivity: 1	1 =SLIGHT	B=SAFETY GLASSES, GLOVES
	Other: B	2= MODERATE	C=SAFETY GLASSES, GLOVES AND APRON
		3=HIGH	
		4=EXTREME	

HMIS Hazard Rating: Health: 2  
Flammability: 1  
Reactivity: 1  
Protection: B

Extinguishing Media: Foam/Carbon dioxide/Dry chemical/Water fog

Special Fire Fighting Procedures: Remove all ignition sources. Wear self-contained breathing apparatus and complete personal protective equipment when entering confined areas where potential for exposure to vapors or products exist.

Unusual Fire and Explosion Hazards: Closed containers may rupture due to build-up of pressure when exposed to extreme heat.

Hazardous Decomposition Products:

## 6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Avoid contact with material. Persons not wearing appropriate protective equipment should be excluded until the spill is cleaned up. Stop spill at source, pump liquid to salvage container. Remaining liquid may be taken up on clay, diatomaceous earth, or other absorbent. Treat with 3-8% concentration of ammonium hydroxide or 5-10% sodium carbonate. Add 10 parts neutralizing solution/part isocyanate. Let stand 48 hours.

## 7. HANDLING AND STORAGE

Handling & Storage Precautions: Prevent all skin and eye contact. Avoid breathing vapors. Re-seal partially used containers. Wash with soap and water before eating or drinking. Protect from moisture contamination. Exothermic generation of carbon dioxide may cause dangerous pressure. Keep away from all ignitable sources as well as extreme heat.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Adequate ventilation required. Local exhaust may be required in some areas. Special exhausting generally not required. Mechanical exhaust usually adequate.

Respiratory Protection: Respiratory masks should be worn at all times when adequate ventilation does not exist. A NIOSH/MSHA respirator is acceptable.

Eye Protection: Chemical tight goggles; full face shield if splashing is possible.

Skin Protection: Coveralls and impervious foot covering is recommended.

Other Protective Clothing or Equipment: Use impervious gloves, neoprene or rubber

Work/ Hygienic Practices: Good air flow in working area. Eyewash station and safety shower should be available. Gloves and respiratory equipment should be worn at all times

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale yellow to amber

Odor: Faint odor

Physical State: Liquid

ph As Supplied: No Data

ph (Other): No Data

Boiling Point: No Data

Melting Point: No data

Freezing Point: No Data

Vapor Pressure (mmHg) : No data

Vapor Density (Air=1): No data

Specific Gravity (Water=1): 1.15

Evaporation Rate (Butyl Acetate=1): Slower than

Solubility in Water: Insoluble

Percent Solids by Weight: 100%

Percent Volatile (grams/liter): By Weight: 0% By Volume: 0%

Volatile Organic Compounds (VOC) (grams/liter): With Water: 0% Without Water: 0%

Viscosity: No Data

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Stability: Stable  
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Incompatibility (Materials to Avoid): Avoid strong oxidizers, acids.  
Hazardous Decomposition or Byproducts: Isocyanine vapors or mist, carbon dioxide, carbon monoxide, nitrogen oxides.  
Hazardous Polymerization: Will not occur under normal circumstances.  
Conditions to Avoid (Polymerization): Avoid incompatible reactants, especially strong bases, water or temperatures over 320°F(160°C).

## 11. TOXICOLOGICAL INFORMATION

Toxicological Information: No Data

## 12. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Use excess product in an alternate beneficial application. Dispose of according to current local, state and federal regulations.  
RCRA Hazard Class: Non-Regulate

## 13. TRANSPORT INFORMATION

### U.S. Department of Transportation

Proper Shipping Name: Polyisocyanate  
Hazard Class: Non-Regulated, NOI  
ID Number:  
Packing Group:  
Label Statement:

### Water Transportation

Proper Shipping Name:  
Hazard Class: Non-Regulated, NOI  
ID Number:  
Packing Group:  
Label Statement:

### Air Transportation

Proper Shipping Name:  
Hazard Class: Non-Regulated, NOI  
ID Number:  
Packing Group:  
Label Statement:

### Other Agencies:

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