

Material Safety Data Sheet

PC - 11, Part A

MSDS No. 90831-60

Date of Preparation: 8-31-2009

Revision:8

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: PC -11, part A

Chemical Formula: Mixture

CAS Number: Mixture

General Use: Adhesive

Manufacturer: Protective Coating Company, Inc., 221 S. Third St., Allentown, PA 18102-4922, Phone (610) 432-3543, FAX (610) 432-5043 (9AM-5PM EST)

Section 2 - Composition / Information on Ingredients

Ingredient Name		CAS Number					
Bisphenol A Epoxy Resin		25068-38-6					
Diisodecyl Phthalate		68515-49-1					
Magnesium Silicate		14807-96-6					
Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Bisphenol A Epoxy resin	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.
Diisodecyl Phthalate	5 mg/m ³	none estab.	5 mg/m ³	none estab.	none estab.	none estab.	None estab.

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Potential Health Effects

Acute Effects

Inhalation: none

Eye: moderate eye irritation or sensitization.

Skin: moderate skin irritation or sensitization.

Ingestion: possible irritation.

Carcinogenicity: IARC, NTP, and OSHA do not list PC - 11, Part A as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: skin and eye conditions.

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Section 4 - First Aid Measures

Inhalation: Remove to fresh air.

Eye Contact: Flush with water, consult a physician.

Skin Contact: Wash with water, consult a physician.

Ingestion: Seek medical advice.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures

Flash Point: 480° F

Flash Point Method: Closed Cup

Flammability Classification: IIIB

Extinguishing Media: Water spray, CO₂, dry chemicals.

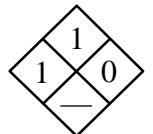
Unusual Fire or Explosion Hazards: None known.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, aldehydes

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

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Section 6 - Accidental Release Measures

Spill /Leak Procedures: Dispose of in normal manner.

Disposal: Incinerate in furnace or bury in landfill according to applicable regulations; not a hazardous waste.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Ventilation: Provide general or local exhaust ventilation systems if product is sanded or ground.

Respiratory Protection: Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator.

Protective Clothing/Equipment: Wear chemically protective gloves to prevent skin contact. Wear protective eyeglasses or chemical safety goggles.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Handling Precautions: None

Storage Requirements: Storage temperature: <90°F(32°C). Store in a cool, dry, well ventilated area.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 8 - Exposure Controls / Personal Protection

Ventilation: Provide general or local exhaust ventilation systems if product is sanded or ground.

Respiratory Protection: Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator.

Protective Clothing/Equipment: Wear chemically protective gloves to prevent skin contact. Wear protective eyeglasses or chemical safety goggles.

Section 9 - Physical and Chemical Properties

Physical State: Paste

Appearance and Odor: White, mild odor

Density: 8.6 lbs./ gallon

Specific Gravity (H₂O=1, at 4 °C): 1.03

Water Solubility: Insoluble in water

Other Solubilities: alcohols

Boiling Point: No data

% Volatile: < 1 %

Section 10 - Stability and Reactivity

Stability: PC - 11, Part A is stable.

Polymerization: Hazardous polymerization cannot occur.

Section 11- Toxicological Information

Toxicity Data:

Lethal Dose Information(mg/kg)		Oral	Skin	Inhale	LC5
Bisphenol A Epoxy Resin		>5000 rat	20000 rabbit	N/EST	N/EST
Diisodecyl Phthalate		No data	No data	No data	No data

Section 12 - Ecological Information

Ecotoxicity: No data

Environmental Fate: No data

Environmental Degradation: No data

Soil Absorption/Mobility: No data

Section 13 - Disposal Considerations

Disposal: Incinerate in furnace or bury in landfill according to applicable regulations; not a hazardous waste.

Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not regulated Shipping Symbols: Not applicable. Hazard Class: Not Hazardous ID No.: Not applicable.	Packing Group: Not determined Label: Not required Special Provisions (172.102): None
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Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)
 RCRA Hazardous Waste Classification (40 CFR 261.): Not classified
 CERCLA Hazardous Substance (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112
 CERCLA Reportable Quantity (RQ), Not listed.
 SARA 311/312 Codes: None.
 SARA Toxic Chemical (40 CFR 372.65): Not listed.
 SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed.

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed
 OSHA Specifically Regulated Substance, none

State Regulations:

Section 16 - Other Information

Storage Requirements: Storage temperature: <90°F(32°C). Store in a cool, dry, well ventilated area.

Personal Hygiene: Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, faceshield, and gloves.

Prepared By: Charles Moloney

Revision Notes:

Notes: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions- in addition to those described herein- are required. Any health hazard and safety information herein should be passed on to your customers or employees as the case may be.

Disclaimer: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other natures are made hereunder with respect to the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

Material Safety Data Sheet

PC - 11, Part B

MSDS No. 90831-59

Date of Preparation: 8-31-2009

Revision:9

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: PC-11, part B

Chemical Formula: Mixture

CAS Number: Mixture

General Use: Adhesive

Manufacturer: Protective Coating Company, Inc., 221 S. Third St., Allentown, PA 18102-4922, Phone (610) 432-3543, FAX (610) 432-5043 (9AM-5PM EST)

Section 2 - Composition / Information on Ingredients

Polyoxypropylenediamine	9046-10-0
N-Aminoethylpiperazine	140-31-8
Nonylphenol	84852-15-3
Diisodecyl Phthalate	26761-40-0
Amine terminated liquid copolymer	68683-29-4
Magnesium Silicate	14807-96-6
Aluminum Silicate	1332-58-7

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

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Potential Health Effects

Acute Effects

Inhalation: none

Eye: moderate eye irritation or sensitization.

Skin: moderate skin irritation or sensitization.

Ingestion: possible irritation.

Carcinogenicity: IARC, NTP, and OSHA do not list PC - 11, Part B as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: skin and eye conditions.

Section 4 - First Aid Measures

Inhalation: Remove to fresh air.

Eye Contact: Flush with water, consult a physician.

Skin Contact: Wash with water, consult a physician.

Ingestion: Seek medical advice.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures

Flash Point: 230° F, (110° C)

Flash Point Method: Closed Cup

Flammability Classification: IIIB

Extinguishing Media: Water spray, CO2, dry chemicals.

Unusual Fire or Explosion Hazards: None known.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, aldehydes

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

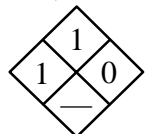
Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

Unusual Fire or Explosion Hazards:

Hazardous Combustion Products:

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

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Section 6 - Accidental Release Measures

Spill /Leak Procedures: Dispose of in normal manner.

Disposal: Incinerate in furnace or bury in landfill according to applicable regulations; not a hazardous waste.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Ventilation: Provide general or local exhaust ventilation systems if product is sanded or ground.

Respiratory Protection: Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator.

Protective Clothing/Equipment: Wear chemically protective gloves to prevent skin contact. Wear protective eyeglasses or chemical safety goggles

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Handling Precautions: None

Storage Requirements: Storage temperature: <90°F(32°C). Store in a cool, dry, well ventilated area.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 8 - Exposure Controls / Personal Protection

Ventilation: Provide general or local exhaust ventilation systems if product is sanded or ground.

Respiratory Protection: Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator.

Protective Clothing/Equipment: Wear chemically protective gloves to prevent skin contact. Wear protective eyeglasses or chemical safety goggles.

Section 9 - Physical and Chemical Properties

Physical State: Paste

Appearance and Odor: light blue, slight amine odor.

Density: 8.4 lbs./ gallon

Specific Gravity (H₂O=1, at 4 °C): 1.01

Water Solubility: Insoluble in water

Other Solubilities: alcohols

Boiling Point: No data

% Volatile: < 1 %

Section 10 - Stability and Reactivity

Stability: PC - 11, Part B is stable.

Polymerization: Hazardous polymerization cannot occur.

Section 11- Toxicological Information

Toxicity Data:

Lethal Dose Information(mg/kg)	Oral (mg/kg)	Skin (mg/kg)	Inhale	LC50
Polyoxypropylenediamine	2880 rat	2980 rabbit	No data	No data
N-Aminoethyl piperzine	2150 rat	900 rabbit	No data	No data
Nonylphenol	580 rat	2140 rabbit	No data	No data
Amine terminated liquid copolymer	15380 rat	3000 rabbit	No data	No data
Diisodecyl Phthalate	No data	No data	No data	No data

Section 12 - Ecological Information

Ecotoxicity: No data

Environmental Fate: No data

Environmental Degradation: No data

Soil Absorption/Mobility: No data

Section 13 - Disposal Considerations

Disposal: Incinerate in furnace or bury in landfill according to applicable regulations; not a hazardous waste. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not regulated	Packing Group: Not determined
Shipping Symbols: Not applicable.	Label: Not required
Hazard Class: Not Hazardous	Special Provisions (172.102): None
ID No.: Not applicable.	

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)
 RCRA Hazardous Waste Classification (40 CFR 261.): Not classified
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 CERCLA Reportable Quantity (RQ), Not listed.
 SARA 311/312 Codes: None.
 SARA Toxic Chemical (40 CFR 372.65): Not listed.
 SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed.

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed
 OSHA Specifically Regulated Substance, none

State Regulations:

Section 16 - Other Information

Storage Requirements: Storage temperature: <90°F(32°C). Store in a cool, dry, well ventilated area.

Personal Hygiene: Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, faceshield, and gloves.

Prepared By: Charles Moloney

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Disclaimer: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other natures are made hereunder with respect to the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.