

MATERIAL SAFETY DATA SHEET

1. Product Information

Product Name: Parker Poly Part A Hardener Chemical Family: Epoxy Resin Product Code: PP500-A

2. Composition/Information on Ingredients

Chemical Name	CAS Number	Occupational Exposure Limits		Vapor Pressure		Weight %
		ACGIH TLV	OSHA PEL	mm Hg	@ temp	
Methyl isoamyl ketone	110-12-31	50ppm	50ppm	70.0	68F	10
Cellosolve acetate	111-15-9	Not established	25ppm	2.0	68F	20
*Methyl ethyl ketone	78-93-3	200ppm	200ppm	77.5	68F	16

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

3. Physical/Chemical Characteristics

Boiling Point: 126-314°F **Specific Gravity (H2O=1):** 1.0 **Vapor Density:** Heavier than air **Evaporation Rate:** Slower than ether
Coating V.O.C.: 3.40 lb/gal (407 G/L) **Solubility in Water:** Not Soluble in water **Appearance and Odor:** Clear liquid with a straw color and sweet odor.

4. Fire and Explosion Hazard Data

Flash Point: 76 deg. F **Method Used:** TCC **Flammable Limits in Air by Volume- Lower:** 1.0% **Upper:** 11.0%
Extinguishing Media: Foam, CO₂, Dry Chemical **Special Firefighting Procedures:** Evacuate area of unprotected personnel. Wear protective clothing including a NIOSH-approved self-contained breathing apparatus. **Unusual Fire and Explosion Hazards:** During a fire, irritating and highly toxic gases and smoke are present from decomposition/combustion. Closed containers may explode when exposed to extreme heat or burst when contaminated with water. Solvent vapors may be heavier than air. Vapors may build up and travel along the ground to an ignition source, and flash back to the source of the vapors.

5. Reactivity Data

Stability: Stable **Conditions to Avoid:** Keep liquid and vapor away from heat, sparks, and flame. **Incompatibility (Materials to Avoid):** Oxidizing materials and strong acids **Hazardous Decomposition or Byproducts:** CO, CO₂, Oxides of Nitrogen.
Hazardous Polymerization: Will not occur.

6. Health Hazard Data

Inhalation Health Risks and Symptoms of Exposure: Overexposure to mist or vapors may cause dizziness, drowsiness, headache, and nausea. Massive overexposure may cause unconsciousness or even death. **Skin and Eye Contact Health Risks and Symptoms of Exposure:** Overexposure by skin contact will cause moderate irritation. Redness, edema, or drying of the skin may occur. Contact with the eyes will cause irritation and redness. **Skin Absorption Health Risks and Symptoms of Exposure:** This product has a low order of acute dermal toxicity. LD50 (rabbit) greater than 3.15 g/Kg of body weight. **Ingestion Health Risks and Symptoms of Exposure:** Ingestion of product may result in nausea, diarrhea, gastrointestinal irritation, and vomiting; aspiration (breathing) of vomit into the lungs must be avoided as even small quantities may result in aspiration pneumonia. **Health hazards (Acute and Chronic):** Prolonged or repeated skin contact may cause drying or cracking of the skin. Similar products upon repeated and prolonged inhalation exposure to elevated concentrations were associated with kidney, liver, and lung damage in male rats. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. **Carcinogenicity: NTP?** No **IARC Monographs?** No **OSHA Regulated?** No **Medical Conditions Generally Aggravated by Exposure:** Respiratory tract irritation, dermatitis, and nausea.
Emergency and First Aid Procedures: **Inhalation:** Move person to fresh air. If breathing stops, administer artificial respiration and seek medical help
Eyes - Flush with large quantities of water for 15 minutes. Get immediate medical attention. **Skin** - Wash thoroughly with soap and water. If redness occurs for extended periods of time seek medical attention
Ingestion - Do not induce vomiting, it can cause chemical pneumonia and pulmonary edema. Contact physician.

7. Precautions for Safe Handling and Use

Steps to Taken in Case material Is Released or Spilled: Eliminate ignition sources, provide good ventilation, dike spill area and soak up material with absorbent such as clay or sawdust. **Waste Disposal Method:** Collect absorbent/spill material mixture into vapor-tight containers. Consult local, state, and federal hazardous waste regulations before disposing into approved hazardous waste landfills. Obey relevant laws.
Precautions to be Taken in Handling and Storing: Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Use in cool, well ventilated areas. Keep containers closed when not in use. Minimize bodily contact with material. Wash thoroughly before eating, drinking or smoking.
Other Precautions: Do not store near heat, sparks or flame. Avoid contact with eyes and prolonged contact with skin. Use only in well ventilated areas and avoid prolonged breathing of mist or vapor.

8. Control Measures

Respiratory Protection: When spraying this material, use a NIOSH approved cartridge respirator or gas mask suitable to keep airborne mists and vapor concentration below the time weighted limit values. When brushing or rolling in poorly ventilated and confined spaces, use a fresh air supplying respirator or a self-contained breathing apparatus. **Ventilation:** Explosion-proof ventilation must be provided in all mixing and application areas to control vapor concentration in accordance with OSHA 29 CFR 1910.134. **Protective Gloves:** Use resistant rubber gloves to prevent skin contact.
Eye Protection: Use chemical safety glasses, goggles or face shields for eye protection. **Other Protective Clothing or Equipment:** Use impermeable aprons and protective clothing whenever possible to prevent skin contact. **Work/Hygienic Practices:** Eye washes and safety showers in the workplace are strongly recommended.

9. Disclaimer

This MSDS was prepared using the MSDS's of our raw material suppliers. It is accurate to our best knowledge, but is furnished without any expressed or implied warranties.

1. Product Information

Product Name: Poly Parker, Part B Resin 122

Chemical Family: Aliphatic Amine

Product Code: PP500-B

2. Composition/Information on Ingredients

Chemical Name	CAS Number	Occupational Exposure Limits		Vapor Pressure mm Hg @ temp	Weight %
		ACGIH TLV	OSHA PEL		
*Titanium dioxide	13463-67-7	15mg/m3	10mg/m3	N/A	36
Propylene glycol monomethyl ether acetate	108-65-6	NE	NE	3.7	10
*N-Butyl acetate	123-86-4	150	150 ppm	8.4	10

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

NE - None established

HMIS Codes: Health - 2, Flammability - 3, Reactivity - 0, Personal - H

3. Physical/Chemical Characteristics

Boiling Point: 156 - 295°F **Specific Gravity (H20=1):** 1.4 **Vapor Density:** Lighter than air **Evaporation Rate:** Slower than ether
Coating V.O.C.: 3.89 lb/gal (466 G/L) **Solubility in Water:** Insoluble in water **Appearance and Odor:** White slightly viscous liquid with a solvent odor

4. Fire and Explosion Hazard Data

Flash Point: 76°F **Flammable Limits in Air by Volume: Lower:** 1.3% **Upper:** 7.6% **Extinguishing Media:** Foam, CO2, Dry Chemical, Water Fog
Special Firefighting Procedures: Evacuate area of unprotected personnel. Wear protective clothing including a NIOSH-approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Closed containers may explode when exposed to extreme heat. Keep such containers cool with water spray. Avoid water buildup, product may float and be reignited on surface. A vapor accumulation may flash and/or explode if ignited.

5. Reactivity Data

Stability: Stable **Conditions to Avoid:** Keep liquid and vapor away from heat, sparks and flame **Incompatibility (Materials to Avoid):** Oxidizing materials and strong acids **Hazardous Decomposition or Byproducts:** CO, CO2, Oxides of Nitrogen **Hazardous Polymerization:** Will not occur

6. Health Hazard Data

Inhalation Overexposure to mist or vapors may cause dizziness, drowsiness, headache, and nausea. Massive overexposure may cause unconsciousness or even death. **Skin and Eye Contact Health Risks and Symptoms of Exposure:** Overexposure by skin contact will cause moderate irritation. Redness, edema, or drying of the skin may occur. Contact with eyes will cause irritation and redness. **Skin Absorption Health Risks and Symptoms of Exposure:** This product has a low order of acute dermal toxicity. 1050 (rabbit) greater than 3.16 g/Kg of body weight. **Ingestion Health Risks and Symptoms of Exposure:** Ingestion of product may result in nausea, diarrhea, gastrointestinal irritation, and vomiting; aspiration (breathing) of vomit into the lungs must be avoided as even small quantities may result in aspiration pneumonitis. **Health Hazards (Acute and Chronic):** Prolonged or repeated skin contact may cause drying or cracking of the skin. Similar products upon repeated and prolonged inhalation exposure to elevated concentrations were associated with kidney, liver, and lung damage to male rats. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. **Carcinogenicity: NTP?** No **IARC Monographs?** No **OSHA Regulated?** No **Medical Conditions Generally Aggravated by Exposure:** Respiratory tract irritation, dermatitis, and nausea. **Emergency and First Aid Procedures:** Inhalation: Move person to fresh air. If breathing stops, administer artificial respiration, and seek medical help. **Eye:** Flush with large quantities of water for 15 minutes. Get immediate medical attention. **Skin:** Wash thoroughly with soap and water. If redness occurs for extended periods of time seek medical attention. **Ingestion:** Do Not induce vomiting, it can cause chemical pneumonitis and pulmonary edema. Contact physician.

7. Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled: Eliminate ignition sources, provide good ventilation, dike spill area and soak up material with absorbent such as clay or sawdust. **Waste Disposal Method:** Collect absorbent/spill material mixture into vapor-tight containers. Consult local, state and federal hazardous regulations before disposing into approved hazardous waste landfills. Obey relevant laws. **Precautions to be Taken in handling and Storing:** Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Use in cool, well ventilated areas. Keep containers closed when not in use. Minimize bodily contact with material. Wash thoroughly before eating, drinking or smoking. **Other Precautions:** Do not store near heat, sparks or flame. Avoid contact with eyes and prolonged contact with skin. Use only in well ventilated areas and avoid prolonged breathing of mist or vapor. **NOTE:** This liquid product contains material identified by the ACH as a nuisance dust. In use, the material will not present an exposure risk. Once the product has dried and is sanded or sandblasted, dusting may occur.

8. Control Measures

Respiratory Protection: When spraying this material, use a NIOSH approved cartridge respirator or gas mask suitable to keep airborne mists and vapor concentrations below the time weighted limit values. When brushing or rolling in poorly ventilated and confined spaces. Use a fresh air supplying respirator or a self-contained breathing apparatus. **Ventilation:** Explosion-proof ventilation must be provided in all mixing and application areas to control vapor concentration in accordance with OSHA 29 CFR 1910.134 **Protective Gloves:** Use resistant rubber gloves to prevent skin contact. **Eye Protection:** Use chemical safety glasses, goggles, or face shields for eye protection. **Other Protective Clothing or Equipment:** Use impermeable aprons and protective clothing whenever possible to prevent skin contact. **Work/Hygienic Practices:** Eyes washes and safety showers in the workplace are strongly recommended.

9. Disclaimer

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date of prepn: 01/28/04

Manufactured by: Parker in WI

Distributed by: Progressive Epoxy Polymers - 48 Wildwood Drive - Pittsfield, NH 03263 - Tel: 603-435-7199 - Fax: 603-435-7182

MATERIAL SAFETY DATA SHEET

1. Product Information

Product Name: Poly Parker, Part B Resin 112

Chemical Family: Aliphatic Amine

Product Code: PP500-B

2. Composition/Information on Ingredients

Occupational Exposure Limits **Vapor Pressure** **Weight %**

Chemical Name	CAS Number	ACGIH TLV	OSHA PEL	mm Hg @ temp		
Propylene glycol monomethyl ether acetate	108-65-6	NE	NE	3.7	68F	10
Calcium Carbonate	471-34-1	15mg/m3	10mg/m3	N/A	N/A	30
*N-Butyl acetate	123-86-4	150	150 ppm	8.4	68F	11

*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372
NE - None established N/A - Not Applicable
HMIS Codes: Health - 2, Flammability - 3, Reactivity - 0, Personal - H

3. Physical/Chemical Characteristics

Boiling Point: 156 - 295°F **Specific Gravity (H2O=1):** 1.2 **Vapor Density:** Lighter than air **Evaporation Rate:** Slower than ether
Coating V.O.C.: 3.81 lb/gl (456 G/L) **Solubility in Water:** Insoluble in water **Appearance and Odor:** Milky Slightly viscous liquid with a solvent odor

4. Fire and Explosion Hazard Data

Flash Point: 76°F **Flammable Limits in Air by Volume:** Lower: 1.3% Upper: 7.6% **Extinguishing Media:** Foam, CO2, Dry Chemical, Water Fog
Special Firefighting Procedures: Evacuate area of unprotected personnel. Wear protective clothing including a NIOSH-approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Closed containers may explode when exposed to extreme heat. Keep such containers cool with water spray. Avoid water buildup, product may float and be reignited on surface. A vapor accumulation may flash and/or explode if ignited.

5. Reactivity Data

Stability: Stable **Conditions to Avoid:** Keep liquid and vapor away from heat, sparks and flame **Incompatibility (Materials to Avoid):** Oxidizing materials and strong acids **Hazardous Decomposition or Byproducts:** CO, CO2, Oxides of Nitrogen Hazardous
Polymerization: Will not occur

6. Health Hazard Data

Inhalation Overexposure to mist or vapors may cause dizziness, drowsiness, headache, and nausea. Massive overexposure may cause unconsciousness or even death. **Skin and Eye Contact Health Risks and Symptoms of Exposure:** Overexposure by skin contact will cause moderate irritation. Redness, edema, or drying of the skin may occur. Contact with eyes will cause irritation and redness. **Skin Absorption**
Health Risks and Symptoms of Exposure: This product has a low order of acute dermal toxicity. 1050 (rabbit) greater than 3.16 g/Kg of body weight.
Ingestion Health Risks and Symptoms of Exposure: Ingestion of product may result in nausea, diarrhea, gastrointestinal irritation, and vomiting; aspiration (breathing) of vomit into the lungs must be avoided as even small quantities may result in aspiration pneumonitis. **Health Hazards (Acute and Chronic):** Prolonged or repeated skin contact may cause drying or cracking of the skin. Similar products upon repeated and prolonged inhalation exposure to elevated concentrations were associated with kidney, liver, and lung damage to male rats. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. **Carcinogenicity:** NTP? No **IARC Monographs?** No **OSHA Regulated?** No **Medical Conditions Generally Aggravated by Exposure:** Respiratory tract irritation, dermatitis, and nausea. **Emergency and First Aid Procedures:** Inhalation: Move person to fresh air. If breathing stops, administer artificial respiration, and seek medical help. **Eye:** Flush with large quantities of water for 15 minutes. Get immediate medical attention. **Skin:** Wash thoroughly with soap and water. If redness occurs for extended periods of time seek medical attention. **Ingestion:** Do Not induce vomiting, it can cause chemical pneumonitis and pulmonary edema. Contact physician.

7. Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled: Eliminate ignition sources, provide good ventilation, dike spill area and soak up material with absorbent such as clay or sawdust. **Waste Disposal Method:** Collect absorbent/spill material mixture into vapor-tight containers. Consult local, state and federal hazardous regulations before disposing into approved hazardous waste landfills. Obey relevant laws. **Precautions to be Taken in handling and Storing:** Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Use in cool, well ventilated areas. Keep containers closed when not in use. Minimize bodily contact with material. Wash thoroughly before eating, drinking or smoking. **Other Precautions:** Do not store near heat, sparks or flame. Avoid contact with eyes and prolonged contact with skin. Use only in well ventilated areas and avoid prolonged breathing of mist or vapor. **NOTE:** This liquid product contains material identified by the ACIH as a nuisance dust. In use, the material will not present an exposure risk. Once the product has dried and is sanded or sandblasted, dusting may occur.

8. Control Measures

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1. Product Information

Product Name: Poly Parker, Part B Resin 116 Chemical Family: Aliphatic Amine Product Code: PP500-B

2. Composition/Information on Ingredients

Chemical Name	CAS Number	Occupational Exposure Limits			Vapor Pressure @ temp	Weight %
		ACGIH TLV	OSHA PEL	mm Hg		
Titanium dioxide	13463-6-7	15mg/m3	10mg/m3	N/A	N/A	20
Propylene glycol monomethyl ether acetate	108-65-6	NE	NE	3.7	68F	10
Calcium Carbonate	471-34-1	15mg/m3	10mg/m3	N/A	N/A	20

*N-Butyl acetate 123-86-4 150 150 ppm 8.4 68F 10

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

NE - None established N/A - Not Applicable

HMIS Codes: Health - 2, Flammability - 3, Reactivity - 0, Personal - H

3. Physical/Chemical Characteristics

Boiling Point: 156 - 295°F **Specific Gravity (H20=1):** 1.3 **Vapor Density:** Lighter than air **Evaporation Rate:** Slower than ether
Coating V.O.C.: 3.76 lb/gal (450 G/L) **Solubility in Water:** Insoluble in water **Appearance and Odor:** White slightly viscous liquid with a solvent odor

4. Fire and Explosion Hazard Data

Flash Point: 76°F **Flammable Limits in Air by Volume: Lower:** 1.3% **Upper:** 7.6% **Extinguishing Media:** Foam, CO2, Dry Chemical, Water Fog
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Polymerization: Will not occur

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