

**MATERIAL SAFETY DATA SHEET FOR *POWER-FAST+®* EPOXY INJECTION GEL CARTRIDGE SYSTEM**

**Manufacturer:** Powers Fasteners, Inc.  
**Address:** 2 Powers Square  
 New Rochelle, NY 10801  
**Phone:** 914-235-6300  
**Contact:** Customer Service Department  
**Emergency Contact:** CHEMTREC  
**Emergency Phone Number:** 800-424-9300

**Product Name:** *Power-Fast+* Epoxy Adhesive Cartridge System

**Section I – Product Identification**

**Product Name:** *Power-Fast+* Epoxy Adhesive Component A – Base Resin

**UN Number:** Not Established  
**Chemical Family:** Epoxy Compound  
**Synonyms:** Proprietary

**Product Name:** *Power-Fast+* Epoxy Adhesive Component B – Hardener

**UN Number:** 1760  
**Chemical Family:** Epoxy Compound  
**Synonyms:** Proprietary

**Section II – Hazardous Ingredients**

**Product Name:** *Power-Fast* Injection Gel Component A – Base Resin

Component	CAS Number	ACGIH TLV	OSHA PEL
Coated Precipitated Calcium Carbonate	Not Established	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Modified Bisphenol A/Epichlorohydrin Base Epoxy Resin	Not Established	N/A	N/A
Talc	14807-96-6	TWA: 2 mg/m <sup>3</sup>	TWA: 20 ppm

**Product Name:** *Power-Fast* Epoxy Injection Gel Component B – Hardener

Component	CAS Number	ACGIH TLV	OSHA PEL
2,4,6 – Tri(Dimethylaminomethyl)Phenol	90-72-2	N/A	N/A
Coated Precipitated Calcium Carbonate	Not Established	TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Proprietary Blend Of Cyclic And Aliphatic Amines	Not Established	N/A	N/A
Talc	14807-96-6	TWA: 2 mg/m <sup>3</sup>	TWA: 20 mg/m <sup>3</sup>

**The UN Number is the United Nations classification. The CAS Number is assigned by Chemical Abstract Services. ACGIH TLV is the Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists. OSHA PEL is the Permissible Exposure Limit established by the Occupational Health and Safety Administration. TWA signifies a Time Weighted Average.**

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### Section III – Physical Data

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**Product Name:** *Power-Fast+* Epoxy Adhesive Component A – Base Resin

<b>Appearance:</b>	White Paste
<b>Odor:</b>	Mild Aromatic
<b>Boiling Point:</b>	N/A
<b>Vapor Pressure:</b>	N/A
<b>Percent Volatiles:</b>	N/A
<b>Vapor Density:</b>	Greater Than Air
<b>Evaporation Rate:</b>	Slower than Ether
<b>Solubility (H<sub>2</sub>O):</b>	N/A
<b>Specific Gravity:</b>	N/A

**Product Name:** *Power-Fast+* Epoxy Adhesive Component B – Hardener

<b>Appearance:</b>	Dark Gray Paste
<b>Odor:</b>	Amine Odor
<b>Boiling Point:</b>	N/A
<b>Vapor Pressure:</b>	N/A
<b>Percent Volatiles:</b>	N/A
<b>Vapor Density:</b>	Greater Than Air
<b>Evaporation Rate:</b>	Slower than Ether
<b>Solubility (H<sub>2</sub>O):</b>	N/A
<b>Specific Gravity:</b>	N/A

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### Section IV – Fire and Explosion Data

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**Product Name:** *Power-Fast+* Epoxy Adhesive Component A – Base Resin

<b>Flash Point:</b>	Greater Than 220° F, Closed Cup
<b>Flammable Limits:</b>	N/A
<b>Flammable Class:</b>	NCMB
<b>Extinguishing Agent:</b>	Foam/Water Fog/Dry Chemical
<b>Fire and Explosion Hazards:</b>	None Known
<b>Special Fire Fighting Procedures:</b>	Wear NIOSH/MSA Approved Self-Contained Breathing Apparatus and Full Protective Gear

**Product Name:** *Power-Fast+* Epoxy Adhesive Component B – Hardener

<b>Flash Point:</b>	Greater Than 220° F, Closed Cup
<b>Flammable Limits:</b>	N/A
<b>Flammable Class:</b>	NCMB
<b>Extinguishing Agent:</b>	Foam/Water Fog/Dry Chemical
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<b>Special Fire Fighting Procedures:</b>	Wear NIOSH/MSA Approved Self-Contained Breathing Apparatus and Full Protective Gear

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## Section V – Exposure and Effects

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**Product Name:** *Power-Fast+* Epoxy Adhesive Component A – Base Resin

### Exposure Effects

Inhalation:	May cause a reversible inflammatory effect on the upper respiratory system.
Skin Contact:	May cause a reversible inflammatory effect on the skin or tissue of the site of contact. Causes an allergic sensitization in a substantial proportion of humans or animals in normal tissue after repeated exposures.
Eye Contact:	Eye irritant.
Ingestion:	May cause effects to the GI tract, usually resulting from ingestion of the material, such as irritation, nausea, GI disorders, ulceration, diarrhea, or constipation.
Health Conditions Aggravated by Exposure:	Asthma type conditions, chronic bronchitis, and other chronic respiratory conditions. Recurrent skin eczema. Pre-sensitization to product.

### First Aid

Inhalation:	Remove to fresh air. If breathing has stopped, institute artificial respiration. Consult with a physician.
Skin Contact:	Wash skin thoroughly with water. Remove contaminated clothing. If symptoms persist, consult a physician.
Eye Contact:	Rinse eyes thoroughly with water for at least 15 minutes. Consult a physician.
Ingestion:	Dilute with water. Consult a physician.

**Product Name:** *Power-Fast+* Epoxy Adhesive Component B – Hardener

### Exposure Effects

Inhalation:	May cause a reversible inflammatory effect on the upper respiratory system.
Skin Contact:	Causes visible destruction of, or irreversible alterations in, living tissue by chemical action at the site of contact when tested by methods such as those listed in CFR Title 49, Part 173, Subpart D. Causes an allergic sensitization in a substantial proportion of humans or animals in normal tissue after repeated exposures.
Eye Contact:	May cause effects to the eye or visual capacity such as diplopia, eye ground, cataracts, visual disturbances, cornea damage, damage to the optic nerve, or blindness.
Ingestion:	May cause effects to the GI tract, usually resulting from ingestion of the material, such as irritation, nausea, GI disorders, ulceration, diarrhea, or constipation.
Health Conditions Aggravated by Exposure:	Asthma type conditions, chronic bronchitis, and other chronic respiratory conditions. Recurrent skin eczema. Pre-sensitization to product.

**First Aid**

Inhalation:	Remove to fresh air. If breathing has stopped, institute artificial respiration. Consult with a physician.
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**Section VI - Reactivity**

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**Product Name:** *Power-Fast+* Epoxy Adhesive Component A – Base Resin

<b>Stability:</b>	Stable
<b>Conditions to Avoid:</b>	None Known
<b>Incompatible Materials:</b>	Strong Acids and Oxidizing Agents
<b>Hazardous Decomposition Products:</b>	Nitrogen Oxides, CO, CO <sub>2</sub>
<b>Hazardous Polymerization:</b>	Will Not Occur
<b>Other Conditions To Avoid:</b>	Exotherm When Curing in Mass

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**Section VII – Spill, Leak, or Disposal Procedure**

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**Product Name:** *Power-Fast+* Epoxy Adhesive Component A – Base Resin

**Steps to be Taken in the Event of Spills, Leaks, or Releases:**

Avoid contact with the material. Wear suitable protective clothing. Contain spill and collect with absorbent material and transfer into suitable containers.

**Waste Disposal Method:**

Dispose of in accordance with Federal, State, and Local Environmental Regulations.  
SARA Hazard Classes: Acute Health Hazard; Chronic Health Hazard

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**Waste Disposal Method:**

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SARA Hazard Classes: Acute Health Hazard; Chronic Health Hazard

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**Section VIII – Special Protective Measures**

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**Product Name:** *Power-Fast+* Epoxy Adhesive Component A – Base Resin

**Ventilation:** Local exhaust is highly recommended. Mechanical exhaust is highly recommended.

**Eye Protection:** Splash proof safety glasses/goggles and other appropriate protection.

**Skin Protection:** Avoid skin contact. Wear long sleeve shirt and long pants and other appropriate protection. Use chemical resistant plastic or rubber gloves.

**Respiratory Protection:** NIOSH/MSA Approved Organic Vapor Respirator is recommended, especially in confined areas.

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**Respiratory Protection:** NIOSH/MSA Approved Organic Vapor Respirator is recommended, especially in confined areas.

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**Section IX –Special Precautions**

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**Product Name:** *Power-Fast+* Epoxy Adhesive Component A – Base Resin

**Storage and Handling:** Store in a cool, dry area between 40°F to 90°F.  
Keep containers tightly closed and sealed.

**Product Name:** *Power-Fast+* Epoxy Adhesive Gel Component B – Hardener

**Storage and Handling:** Store in a cool, dry area between 40°F to 90°F.  
Keep containers tightly closed and sealed.

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### Section X – Other Regulatory Information

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The following information is supplied based on the Hazardous Materials Identification System (HMIS) established by the National Paint and Coatings Association.

**Product Name:** *Power-Fast+* Epoxy Adhesive Component A – Base Resin

Health	2 Moderate
Fire	0 Negligible
Reactivity	1 Negligible
Personal Protective Equipment (PPE)	C

**Product Name:** *Power-Fast+* Epoxy Adhesive Component B – Hardener

Health	3 High
Fire	0 Negligible
Reactivity	1 Negligible
Personal Protective Equipment (PPE)	C

**Warning:**

This product contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

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### Section XI – Shipping Information

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**DOT Proper Shipping Name:** Consumer Commodity, ORM-D

**ICAO/IATA Proper Shipping Name:** Corrosive Liquid, n.o.s. (Aliphatic and Cyclic Amines) Class 8, UN 1760, Packing Group III

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**Date of Preparation:** March 10, 2003

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