

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

Manufacturer: Powers Fasteners, Inc.
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 New Rochelle, NY 10801
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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+* Epoxy Adhesive Component A – Base Resin

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

Product Name: *Power-Fast+* Epoxy Adhesive 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 ³	TWA: 10 mg/m ³
Proprietary Blend Of Cyclic And Aliphatic Amines	Not Established	N/A	N/A
Talc	14807-96-6	TWA: 2 mg/m ³	TWA: 20 mg/m ³

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.

Section III – Physical Data

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

Appearance:	White Paste
Odor:	Mild Aromatic
Boiling Point:	N/A
Vapor Pressure:	N/A
Percent Volatiles:	N/A
Vapor Density:	Greater Than Air
Evaporation Rate:	Slower than Ether
Solubility (H₂O):	N/A
Specific Gravity:	N/A

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

Appearance:	Dark Gray Paste
Odor:	Amine Odor
Boiling Point:	N/A
Vapor Pressure:	N/A
Percent Volatiles:	N/A
Vapor Density:	Greater Than Air
Evaporation Rate:	Slower than Ether
Solubility (H₂O):	N/A
Specific Gravity:	N/A

Section IV – Fire and Explosion Data

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

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

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Section V – Exposure and Effects

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.

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Ingestion:	Dilute with water. Consult a physician.

Section VI - Reactivity

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

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

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Section VII – Spill, Leak, or Disposal Procedure

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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Section VIII – Special Protective Measures

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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Section IX –Special Precautions

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.

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Section X – Other Regulatory Information

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.

Section XI – Shipping Information

DOT Proper Shipping Name: NOT REGULATED BY D.O.T.

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

Date of Preparation: June 1, 2005

The data contained in this Material Safety Data Sheet relates only to the specific material herein and does not relate to use in combination with any other material or in any process. The information set forth herein is based on technical data from Powers Fasteners, Inc. believed to be reliable as of the date of preparation. Since conditions of use are outside our control, we make no warranties, expressed or implied, and assume no liability in connection with any use of the information. Final determination regarding the safety, suitable use and proper disposal of products is the responsibility of the user. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe any patents.

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