

MATERIAL SAFETY DATA SHEET FOR AC100 PLUS™ / AC5.5 PLUS™ ADHESIVE ANCHORING SYSTEM

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

Product Name: AC100 Plus™ / AC5.5 Plus™ Adhesive Anchoring System

Section I - Product Identification

Product Name: AC100 Plus™ / AC5.5 Plus™ Adhesive Anchoring System
UN Numbers: Not Established
Chemical Family: Epoxy acrylate (Modified Vinylester - V.O.C. free) and Peroxide Hardener
Synonyms: Proprietary Adhesive Anchoring System

Section II - Hazardous Ingredients

Components (proprietary resin)	% Contents	CAS Number	ACGIH TLV	OSHA PEL
Epoxy acrylate (Modified Vinylester) *	25.5 - 37.0	NE	NE	NE
Fumed Silica	2.0 - 3.0	67762-90-7	10 mg/m ³	15 mg/m ³
Quartz	60.0 - 70.0	14808-60-7	0.1 mg/m ³	0.1 mg/m ³

Components (hardener)	% Contents	CAS Number	ACGIH TLV	OSHA PEL
Fumed Silica	2.0 - 3.0	67762-90-7	10 mg/m ³	15 mg/m ³
Dibenzoyl Peroxide	11.5 - 20.0	94-36-0	100 ppm (5 mg/m ³)	100 ppm (5 mg/m ³)
Quartz	60.0 - 70.0	14808-60-7	0.1 mg/m ³	0.1 mg/m ³

The UN Number is the United Nations classification and the % Contents listed is an average by weight. CAS Numbers are assigned by Chemical Abstract Services. ACGIH TLV is the Threshold Limit Value established by the American Conference of Governmental Industrial Hygienist. OSHA PEL is the Permissible Exposure Limit established by the Occupational Safety and Health Administration. TWA signifies a Time Weighted Average. NE: Not established. An asterisk () indicates a substance whose identity is considered to be a trade secret.*

Section III - Physical Data

Appearance: Grayish beige when mixed (resin alone - beige, hardener alone - black)
Odor: Slightly acidic
Boiling Point: Not applicable (polymerizes or decomposes before boiling)
Melting Point: Not applicable (polymerizes or decomposes before melting)
Vapor Pressure: Not applicable (no volatiles)
Percent Volatiles: 0
Density: (weight divided by volume) 1.7
Viscosity [at 41° F. (23° C.):] Non-sag, thixotropic paste, > 336 lbm/ft-sec (500 Pa-sec)
pH: Not established
Decomposition: Cured material > 392° F. (200° C.)
Evaporation Rate: Not available
Solubility (H₂O): Insoluble

Section IV - Fire and Explosion Data

Flash Point: > 392° F. (200° C.)
Flammability Limits: Not applicable
Flammability Class: Not applicable
Extinguishing Agent: Dry extinguisher, foam, carbon dioxide or waterspray (do not use direct water jet)
Fire and Explosion Hazards: Avoid breathing vapors and fumes. Toxic fumes form during decomposition (carbon oxides) may cause severe health hazard. Contact with combustible material may cause fire.
Special Fire Fighting Procedures: Wear NIOSH / MSA Self-Contained Breathing Apparatus and full protective gear if necessary, depending upon the size of the fire.

Section V - Exposure and Effects

Exposure Effects:

Inhalation:	Do not breathe vapors directly. Concentrated fumes in poorly ventilated areas may cause mild dizziness and / or slight nausea.
Skin Contact:	May be irritating. May cause skin sensitization effect.
Eye Contact:	May be irritating.
Ingestion:	May cause irritation to the mouth, stomach tissue and gastro-intestinal tract.
Health Conditions Aggravated by Exposure:	Chronic respiratory conditions, skin disorders and allergies, and eye disease.

First Aid:

Inhalation:	Remove to fresh air. Consult a physician if discomfort persists.
Skin Contact:	Remove contaminated clothing immediately. Wash contaminated areas thoroughly with soap and water and rinse with water. Do not use any solvent. Consult a physician if irritation and / or sensitization persists.
Eye Contact:	Flush thoroughly with water immediately for a minimum of 15 minutes. Consult a physician if irritation persists.
Ingestion:	Consult a physician immediately. Do not induce vomiting. If swallowed, drink plenty of milk or water.

Section VI - Reactivity Data

Stability:	Stable
Incompatible Materials:	Strong acids, strong bases and strong oxidizing agents.
Hazardous Decomposition Products:	By thermal decomposition (CO, CO ₂ , acids, vapors and other flammable gases, etc.).
Hazardous Polymerization:	Yes, when cartridge is stored above 140° F. (60° C.)
Other Conditions to Avoid:	Extremes of temperature, sunlight and UV-rays.

Section VII - Spill, Leak or Disposal Procedures

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

Avoid contact with the material. Wear suitable protective clothing. Contain spill and do not allow material to empty into drains and water courses. If material has entered a water course, lake or sewer, or has contaminated soil or vegetation, advise the local authorities.

Waste Disposal Method:

Collect and place in a sealed drum or other suitable closed container. If components are mixed, allow to solidify. Dispose of in accordance with Federal, State and Local Environmental Regulations

Section VIII - Special Protective Measures

Ventilation:	Provide good ventilation of the work area. Mechanical or natural exhaust is recommended.
Eye Protection:	Wear safety glasses, goggles or face shield meeting ANSI requirements, particularly when using material overhead.
Hearing Protection:	Not applicable.
Skin Protection:	Wear protective rubber or plastic gloves and other appropriate protection.
Respiratory Protection:	None required when good ventilation is provided.

Section IX - Special Precautions

Storage:	Store in cool and dry conditions away from sunlight and ultraviolet radiation. Keep in original packaging at temperatures between 40° and 80° F. (5° and 25° C.). Above 104° F. (40° C.), peroxide decomposes to create free radicals + CO ₂ , then hardener tube is under pressure and piston may be removed. Above 140° F. (60° C.), polymerization of resin may occur.
Waste Disposal Method:	Dispose of in accordance with Federal, State and Local Environmental Regulations.

Other Precautions:

Smoking, eating, drinking and the preparation of foodstuffs should be prohibited in areas where materials are to be stored and / or handled. Wash hands thoroughly after working with material and before eating.

Section X - Other Regulatory Information

Hazardous Materials Identification System (HMIS) Codes :

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

Health:	2
Fire:	3
Reactivity:	1
Personal Protective Equipment (PPE)	B

Section XII - Shipping Information

Mode of Transportation: Proper Shipping Name

Domestic Ground: Regulations do not apply to this material

Domestic Air: Regulations do not apply to this material

International Air: Regulations do not apply to this material

International Ocean: Regulations do not apply to this material

Date of Preparation: January 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. and suppliers of Powers Fasteners, Inc., believed to be reliable as of the date of preparation. Since conditions of use are outside the control of Powers Fasteners, no warranties are made, expressed or implied and no liability is assumed in connection with any use of this 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 upon any patents.

For additional copies of this MSDS, ask for Catalog Number 49013.