



ABATRON, INC.

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24 Hour Emergency No: (800) 424-9300

Safety Data Sheet

SECTION 1: Product Identification

Product Name: Ferrobond P A

Product Code: 8112-1A

Product Class: Filled Epoxy Compound

Product Type: Epoxy Adhesive Paste

Manufacturer/Supplier: Abatron Incorporated
5501 95th Ave., Kenosha WI, 53144
Phone: 262-653-2000

Telephone: For 24 Hour Emergency Assistance
Call CHEMTREC (800) 424-9300

SECTION 2: Hazard Identification

Emergency Overview: Warning! Irritant. Gray, metal-filled resin paste with almost no odor. Caution, contact may cause eye and skin irritation. Prolonged contact may cause skin sensitization. Vapor from material may cause respiratory tract irritation.



Primary Routes of Entry: Eye and skin contact, breathing vapors.

Symptoms of Exposure

Eye Contact: May cause temporary eye irritation, redness and tearing with contact.

Skin Contact: Material is irritating to skin and can lead to redness and dryness. Exposure is not likely to result in absorption in harmful amounts. May be a skin sensitizer.

Inhalation: Vapors from heated material may be slightly irritating to the upper respiratory tract.

Ingestion: Not expected to be harmful under normal conditions of use. Ingesting large amounts of material may cause injury.

Effect of Over-exposure: Respiratory tract irritation and coughing. Pre-existing skin disorders may be aggravated by over-exposure.

Chronic and Other Health Effects: None known.

SECTION 3: Composition/Ingredient Information

Composition: Trade secret. Proprietary epoxy prepolymer.

SECTION 4: First-Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes and check for and remove contacts. Hold eyelids apart to rinse entire eye surface. Get immediate medical attention if irritation persists.

Skin Contact: Wipe off excess immediately and wash affected area with soap and water for at least 15 minutes. Remove contaminated clothing or shoes and seek medical attention if irritation persists. Continue washing if irritation persists.

Inhalation: If inhaled, remove victim to fresh air and consult medical personnel immediately. If person is not breathing or breathing is irregular, provide oxygen with the aid of trained personnel only. If unconscious, place in recovery position and seek medical attention immediately.

Ingestion: Wash out mouth with small amounts of water and remove person to fresh air. Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention immediately. If unconscious, place in recovery position. Never give anything by mouth to an unconscious person.

SECTION 5: Fire-Fighting Measures

Flash Point: >450 °F (>232 °C)

Method Used: ASTM D3278-96

Flammable Limits (STP In Air)

LFL: Not Deter. **UEL:** Not Deter.

Extinguishing Media: Water fog, foam, CO₂, and dry chemicals.

Specific Hazards and Procedures: Remove all persons from the vicinity. Burning material may generate large amounts of vapor. Combustion and/or decomposition products include carbon oxides.

Specific Fire Fighting Equipment: Firefighters should wear a Self Contained Breathing Apparatus and personal protective clothing.

SECTION 6: Accidental Release Measures

Personal Protective Measures: Provide adequate ventilation and avoid all personnel contact. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Wear an appropriate respirator when ventilation is inadequate. Use appropriate safety equipment before taking any action.

Clean Up/Disposal Method: Stop flow of material with sand or other inert material and move container from spill area. Scrape up material and place in appropriate waste disposal container. Flush contaminated area with solvent, wipe up spill and dispose of contaminated material in proper container. Do not dump waste into any sewers, on the ground or into any body of water. Avoid dispersal of spilled material and runoff. All disposal methods must be compliant with all Federal, State, and local laws and regulations.

SECTION 7: Handling and Storage

Precautions: Do not get in eyes, on skin or on clothing. Avoid any forms of ingestion. Do not breathe vapor, mist or spray. Use only with good ventilation or use suitable respiratory protection. Wear suitable protective clothing. Remove contaminated clothing and wash before reuse. Destroy contaminated

leather. Wash thoroughly after handling. Do not eat or drink in areas where material is stored or in use. Wash hands and face before eating or drinking after using this product.

Storage Information: Store in tightly sealed, original container in a cool, dry place. Keep container sealed until use.

SECTION 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:

OSHA	PEL/TWA	None Available
ACGIH	TLV/TWA	None Available

Engineering Controls: Good general mechanical ventilation and local exhaust are recommended. If user operations generate vapor, process enclosures or local exhaust may be necessary.

Personal Protective Equipment

Respiratory: If local exhaust ventilation is inadequate, use a properly fitted, air-purifying mask suitable to the level of anticipated exposure.

Skin Protection: Wear protective clothing suitable to the conditions of use. Clean, body-covering clothing and protective gloves should be worn at all times when handling the product. Wear all necessary protective clothing to prevent contact with skin.

Eye Protection: Use properly fitted safety glasses when handling this product.

Other: Handle in accordance with good industrial hygiene and safety practice. Wash hands, forearms, and face thoroughly after using the material.

SECTION 9: Physical and Chemical Properties

Appearance: Gray, metal-filled paste

Odor Threshold: NA

Melting Point/Freezing Point: NA

Flash Point: >450 °F (>232 °C)

Flammability: NA

Vapor Pressure: NA

Specific Gravity: 2.5-3

Partition Coefficient: NA

Decomposition Temperature: NA

Odor: Almost none

pH: NA

Boiling Point: NA

Evaporation Rate: NA

Explosive Limits: NA

Vapor Density (Air = 1): NA

Solubility: Insoluble

Auto-Ignition Temp.: NA

Viscosity: NA

SECTION 10: Stability and Reactivity

Stability: Stable under normal conditions. Prolonged excessive heat may cause partial degradation.

Incompatibility: Avoid strong acids or bases in bulk, and strong oxidizing agents. Reacts with considerable heat release with some curing agents.

Hazardous Decomposition Products: None under normal conditions.

Hazardous Polymerization: Will not occur by itself, but masses of more than 3-4 lbs of product, plus an aliphatic amine may cause an irreversible reaction with considerable heat build up.

SECTION 11: Toxicological Information

Routes of Exposure: Skin contact, eye contact, vapor inhalation.

Primary Symptoms: Mild eye and skin irritant and mild skin sensitizer. Prolonged exposure can cause dryness and cracking of the skin. Material vapor can be irritating to the respiratory and digestive tracts, and may be harmful if swallowed or inhaled in large amounts.

Effects of Overexposure: Respiratory tract irritation and coughing. Pre-existing skin disorders may be aggravated by over-exposure.

Acute Toxicity

Oral LD50 (Rat): > 5,238 mg/kg

Dermal LD50 (Rat): NA

Carcinogenicity: This material is not listed or classified by the National Toxicology Program (NTP) Report on Carcinogens or the International Agency for Research on Cancer (IARC).

SECTION 12: Ecological Information

Ecotoxicity: Not determined. No known significant effects or critical hazards.

Persistence/Degradability: Not determined. No known significant effects or critical hazards.

Bioaccumulation: Not expected. No known significant effects or critical hazards.

Mobility in Soil: Not expected to migrate.

Other Adverse Effects: No known significant effects or critical hazards.

SECTION 13: Disposal Considerations

Disposal considerations apply only to the product as shipped in its original container.

Waste Disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional/local authority requirements. Avoid dispersal of material and runoff, and contact with soil, waterways, drains and sewers.

SECTION 14: Transportation Information

DOT/IATA:

Proper Shipping Name: Non-regulated

Hazardous Class: Non-regulated

ID Number: Non-regulated

Packing Group: Non-regulated

Marine Pollutant: No

Special Precautions: None

SECTION 15: Regulatory Information

HCS Classification: Material contains one or more substances classified by OSHA as: Irritating material, Sensitizing material.

TSCA Status: All materials are either included on or exempt from the TSCA Inventory of Chemical Substances. This product does not contain any components subject to TSCA 12(b) export notification.

SARA 311/312 Class: Material contains one or more substances classified as acute health hazard.

Other Regulations: No other known classifications or regulations.

SECTION 16: Other Information

Created: August 18, 1990

Last Updated: November 24, 2015

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED, IS MADE.



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Safety Data Sheet

SECTION 1: Product Identification

Product Name: Ferrobond (P) B

Product Code: 8112-1B

Product Class: Epoxy Coreactants

Product Type: Curing Agent Paste/Putty

Manufacturer/Supplier:

Abatron Incorporated
5501 95th Ave., Kenosha WI, 53144
Phone: 262-653-2000

Telephone:

For 24 Hour Emergency Assistance
Call CHEMTREC (800) 424-9300

SECTION 2: Hazard Identification

Emergency Overview: Danger! Irritant. Corrosive. Translucent, amber paste with Vaseline like consistency and light ammonia odor. Toxic in contact with skin. Contact with material causes severe skin burns and eye damage. May cause skin sensitization by contact. Vapor may be irritating to the upper respiratory tract.



Primary Routes of Entry: Eye and skin contact, breathing vapors.

Symptoms of Exposure

Eye Contact: Material is corrosive to the eyes and contact can cause burns with corneal injury. Permanent damage is possible with prolonged exposure to eyes.

Skin Contact: Material is corrosive to the skin and contact can cause burns. Exposure may result in absorption in harmful amounts.

Inhalation: Vapors from material can cause upper respiratory tract irritation.

Ingestion: Ingesting material may cause burns to the mouth, throat and stomach. Material is an aspiration hazard if swallowed. Ingesting large amounts of material may cause injury.

Effect of Over-exposure: Respiratory tract irritation and coughing. Pre-existing skin disorders may be aggravated by over-exposure. Over-exposure may affect the following target organs: liver, kidneys, skin.

Chronic and Other Health Effects: None known.

SECTION 3: Composition/Ingredient Information

Composition: Trade secret. Proprietary amines and phenols.

SECTION 4: First-Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes and check for and remove contacts. Hold eyelids apart to rinse entire eye surface. Get immediate medical attention. If physician is not available, continue washing for at least 15 minutes.

Skin Contact: Flush affected area immediately with soap and water for at least 15 minutes. Remove contaminated clothing or shoes and seek medical attention if irritation persists. Continue washing if irritation persists.

Inhalation: If inhaled, remove victim to fresh air and consult medical personnel immediately. If person is not breathing or breathing is irregular, provide oxygen with the aid of trained personnel only. Maintain an open airway. If unconscious, place in recovery position and seek medical attention immediately.

Ingestion: Wash out mouth with water and remove person to fresh air. Do not induce vomiting unless directed to do so by medical personnel. Seek medical attention immediately. If unconscious, place in recovery position. Never give anything by mouth to an unconscious person.

SECTION 5: Fire-Fighting Measures

Flash Point: >245 °F (>118 °C)

Flammable Limits (STP In Air)

Method Used: Pensky-Martens C.C.

LFL: Not Deter.

UEL: Not Deter.

Extinguishing Media: Water fog, alcohol foam, CO₂, and dry chemicals.

Specific Hazards and Procedures: Remove all persons from the vicinity. Burning material may generate large amounts of toxic and noxious fumes. Combustion and/or decomposition products include carbon oxides, nitrogen oxide gases, ammonia gas and formaldehyde.

Specific Fire Fighting Equipment: Firefighters should wear a Self Contained Breathing Apparatus and personal protective clothing.

SECTION 6: Accidental Release Measures

Personal Protective Measures: Provide adequate ventilation and avoid all personnel contact. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Wear an appropriate respirator when ventilation is inadequate. Use appropriate safety equipment before taking any action.

Clean Up/Disposal Method: Stop flow of material with sand or other inert material and move container from spill area. Absorb spill with an inert material, scrape up and place in appropriate waste disposal container. Flush contaminated area with solvent, wipe up spill and dispose of contaminated material in proper container. Do not dump waste into any sewers, on the ground or into any body of water. Avoid dispersal of spilled material and runoff. All disposal methods must be compliant with all Federal, State, and local laws and regulations.

SECTION 7: Handling and Storage

Precautions: Do not get in eyes, on skin or on clothing. Avoid any forms of ingestion. Do not breathe vapor, mist or spray. Use only with good ventilation or use suitable respiratory protection. Wear suitable protective clothing. Remove contaminated clothing and wash before reuse. Destroy contaminated leather. Wash thoroughly after handling. Do not eat or drink in areas where material is stored or in use. Wash hands and face before eating or drinking after using this product.

Storage Information: Store in tightly sealed, original container in a cool, dry place. Keep container sealed until use.

SECTION 8: Exposure Controls/Personal Protection

Occupational Exposure Limits:

OSHA	PEL/TWA	None Available
ACGIH	TLV/TWA	None Available

Engineering Controls: Good general mechanical ventilation and local exhaust are recommended. If user operations generate vapor, process enclosures or local exhaust may be necessary.

Personal Protective Equipment

Respiratory: If local exhaust ventilation is inadequate, use a properly fitted, air-purifying mask suitable to the level of anticipated exposure.

Skin Protection: Wear protective clothing suitable to the conditions of use. Clean, body-covering clothing and protective gloves should be worn at all times when handling the product. Wear all protective clothing necessary to avoid skin contact.

Eye Protection: Use properly fitted safety glasses. If vapor exposure causes eye discomfort, a full-face respirator may be necessary.

Other: Handle in accordance with good industrial hygiene and safety practice. Wash hands, forearms, and face thoroughly after using the material.

SECTION 9: Physical and Chemical Properties

Appearance: Translucent, amber Vaseline-like paste

Odor Threshold: NA

Melting Point/Freezing Point: NA

Flash Point: >245 °F (>118 °C)

Flammability: NA

Vapor Pressure: >1 MMHG @25C

Specific Gravity: 0.9

Partition Coefficient: NA

Decomposition Temperature: NA

Odor: Light ammonia odor

pH: NA

Boiling Point: >500 °F (>260 °C)

Evaporation Rate: NA

Explosive Limits: NA

Vapor Density (Air = 1): NA

Solubility: >10%

Auto-Ignition Temp.: 561F (294C)

Viscosity: NA

SECTION 10: Stability and Reactivity

Stability: Stable under normal conditions. Can autoignite in air at approx. 294C (561F).

Incompatibility: Avoid contact with organic acids, mineral acids, oxidizing agents, and sodium hypochlorite. Contact with nitrous acid, nitrites, and other nitrosating agents can form hazardous N-Nitrosamines. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Hazardous Decomposition Products: Nitric acid, ammonia, nitrogen oxides, nitric acid, carbon oxides, nitrosamine, formaldehydes.

Hazardous Polymerization: Will not occur.

SECTION 11: Toxicological Information

Routes of Exposure: Skin contact, eye contact, vapor inhalation.

Primary Symptoms: Material is corrosive to the eyes and skin and prolonged contact may cause extreme irritation and burns. Material is toxic in contact with skin and prolonged exposure may result in absorption in harmful amounts. Material is harmful if swallowed, and may cause burns to the mouth, throat and stomach. Vapor causes respiratory tract irritation.

Effects of Overexposure: Overexposure to vapors can cause dizziness, headaches and other central nervous system effects. Material may cause damage to the following organs: skin, kidneys and lungs.

Acute Toxicity

Oral LD50 (Rat): 4,340 mg/kg

Dermal LD50 (Rat): N/A

Carcinogenicity: This material is not listed or classified by the National Toxicology Program (NTP) Report on Carcinogens or the International Agency for Research on Cancer (IARC).

SECTION 12: Ecological Information

Ecotoxicity: No data is available on the product itself.

Persistence/Degradability: Not determined.

Bioaccumulation: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: Toxic to aquatic organisms. Material may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal Considerations

Disposal considerations apply only to the product as shipped in its original container.

Waste Disposal: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional/local authority requirements. Avoid dispersal of material and runoff, and contact with soil, waterways, drains and sewers.

SECTION 14: Transportation Information**DOT/IATA:**

Proper Shipping Name: Corrosive Liquid n.o.s. (Nonylphenol, Aminoethylpiperazine)
Hazardous Class: 8
ID Number: UN1760
Packing Group: III
Marine Pollutant: Yes
Special Precautions: None

SECTION 15: Regulatory Information

HCS Classification: Material contains one or more substances classified by OSHA as: Toxic material, Corrosive material, Target organ effects.

TSCA Status: All materials are either included on or exempt from the TSCA Inventory of Chemical Substance. This product does not contain any components subject to TSCA 12(b) export notification.

SARA 311/312 Class: Material contains one or more substances classified as acute health hazard and chronic health hazard.

Other Regulations: No other known classifications or regulations.

SECTION 16: Other Information

Created: April 1, 2000

Last Updated: 6/15/2017

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