

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: POWERCRETE J Part A
PRODUCT SYNONYMS: None
PRODUCT USE: Part A of a 2-Part Epoxy Coating System
PRODUCT/MSDS DISTRIBUTION: United States

MANUFACTURER: Berry Plastics
DIVISION: Corrosion Protection Group
ADDRESS: 11010 Wallisville Road,
Houston, TX, 77013

EMERGENCY TELEPHONE NUMBER: CHEMTREC 1-800-424-9300
OTHER TECHNICAL/HEALTH/SAFETY INFORMATION: (713) 676-0085

CHEMICAL FAMILY: This product is a resinous suspension that provides the base properties to a 2-part epoxy adhesive.
PRODUCT USE: Part A is a finished product that provides the base component in a resinous suspension with an as-designed, intended-use consisting of direct end-use application in a 2-part liquid epoxy coating system in combination with the proper Part B component. When combined with the proper Part B component, the resulting liquid epoxy coating has an end-use application in metal and plastic bonding where corrosion protection is desired (see, Tyco Adhesives Product Installation and Use Instructions that accompany the product).

This product is not considered an Article thus may be regulated under US-OSHA; CAN-WHMIS; IOSH; ISO; UK-CHIP; or EU Directives (67/548/EEC-Dangerous Substance Labeling, 98/24/EC-Chemical Agents at Work, 99/45/EC-Preparation Labeling, 2001/58/EC-MSDS Content), and an MSDS is required for this product considering that when used as recommended or intended, or under ordinary conditions, it may present a health and safety exposure or other hazard.

Additional Information

No additional information. When combined with the proper Part B component, this product is intended for harsh environments, such as wet bonding applications. Please request information if considering non-STP, incompatible-conditions or use beyond current product labeling or instructions. Note that Part A should not be stored/dispensed in high temperature or humid/wet conditions without precaution.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS No.</u>	<u>% by Wt</u>
Polypropyleneglycol glycidyl ether	9072-62-2	3-5
Bisphenol A/Epichlorohydrin resin	25068-38-6	15-40
Bisphenol A epoxy resin	67924-34-9	7-13
Hydrous aluminum silicate	12001-26-2	5-10
Calcium carbonate	1317-65-3	15-40
Quartz silica	14808-60-7	0.5-1.5

Additional Information

No additional information

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Warning! Causes irritation. May cause sensitization and allergic skin reaction. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling. Store in a cool, dry place. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.

POTENTIAL HEALTH EFFECTS

EYES: Eye irritant. Direct contact or exposure to vapors or mists may cause stinging, tearing, redness and swelling. Persons with pre-existing eye disorders may be more susceptible to the effects of this material.

SKIN: Skin irritant. Direct contact may cause redness, burning and skin damage. Repeated contact may cause an allergic skin reaction in sensitized individuals. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

INGESTION: Ingestion may cause irritation of the mouth, throat and digestive tract. May be harmful if ingested.

INHALATION: Breathing vapors or mists may cause nose, throat and respiratory tract irritation. Repeated exposure may cause an allergic respiratory reaction (asthma) in sensitized individuals. Persons with pre-existing lung disorders (for example asthma-like conditions) may be more aggravated by exposure to this material.

ACUTE HEALTH HAZARDS:

May cause eye, skin and respiratory tract irritation.

CHRONIC HEALTH HAZARDS:

Repeated or prolonged overexposure may cause sensitization.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Pre-existing eye, skin, and respiratory disorders may be aggravated by exposure.

Additional Information

Under certain conditions of use, such as sanding the cured product, dusts may be formed. Contact with dusts may be abrasive and irritating to the eyes, skin and respiratory tract. Prolonged or repeated overexposure to dusts may result in chronic bronchitis (lung inflammation) with symptoms of coughing and shortness of breath. Persons with pre-existing eye and skin disorders may be more susceptible to the effects of dust exposure. Respiratory symptoms associated with pre-existing lung disorders (e.g., asthma conditions) may be aggravated by exposure to dust.

SECTION 4: FIRST AID MEASURES

EYES: Holding eyelids apart, flush affected eye(s) with clean water for at least 20 minutes. If symptoms persist, seek medical attention.

SKIN: Immediately wipe material from skin and wash affected area(s) with plenty of mild soap and water while removing contaminated clothing and shoes. If symptoms persist, seek medical attention. Wash clothing before reuse.

INGESTION: DO NOT induce vomiting. If victim is conscious and alert, immediately rinse mouth with water and dilute the ingested material by giving 3-4 glasses of water to drink. Do not give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.

INHALATION: If respiratory or other symptoms of exposure develop, move victim to fresh air and seek medical attention. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention. If victim is not breathing, move to fresh air and immediately begin artificial respiration. Keep victim warm and quiet; seek immediate medical attention.

Additional Information

No additional information

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point > 93.3° C (>200 ° F) CC

Autoignition temperature No data available

Lower Explosive Limit (LEL) No data available

Upper Explosive Limit (UEL) No data available

Extinguishing Media

Water, foam, dry chemical, carbon dioxide.

Special Fire Fighting Procedures

Fireman should wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

Decomposition and combustion products may be toxic.

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

Additional Information

No additional information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Absorb with sand or other absorbent material. Shovel into closable containers for disposal. Wear appropriate personal protective equipment. Flush contaminated area with water. Avoid discharge to sewer.

Additional Information

No additional information

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:

Mixing and application should be done in a well-ventilated area. Local exhaust is recommended; general dilution ventilation is acceptable. Avoid all personal contact. Keep containers tightly closed. Wash thoroughly after using. Parts A and B release heat when combined. Store in a cool, well-ventilated area.

OTHER PRECAUTIONS:

Store away from direct sunlight under normal storage conditions of approximately 23C and 50% Relative Humidity to maximize the shelf life of this product and to avoid product degradation prior to use as-intended. Storage at temperatures beyond normal-use conditions may adversely affect product functionality, and elevated temperatures may create hazardous conditions.

Additional Information

Containers, even those that have been emptied, can contain hazardous residues. Protect containers from physical damage to avoid leaks and spills.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use with adequate ventilation.

VENTILATION:

Local exhaust is recommended; general dilution ventilation is acceptable.

RESPIRATORY PROTECTION:

If ventilation is inadequate, use NIOSH approved respirator for organic vapor.

EYE PROTECTION:

Wear chemical goggles.

SKIN PROTECTION:

Wear chemical resistant gloves as a standard procedure to prevent skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

The use of barrier cream is recommended.

EXPOSURE GUIDELINES:

Polypropyleneglycol glycidyl ether

OSHA
ACGIH

Permissible Exposure Limit (PEL)
Threshold Limit Value (TLV)

Not Established
Not Established

Bisphenol A/Epichlorohydrin resin

OSHA	Permissible Exposure Limit (PEL)	Not Established
ACGIH	Threshold Limit Value (TLV)	Not Established

Bisphenol A epoxy resin

OSHA	Permissible Exposure Limit (PEL)	Not Established
ACGIH	Threshold Limit Value (TLV)	Not Established

Hydrous aluminum silicate

OSHA	Permissible Exposure Limit (PEL)	80 mg/m ³ %SiO ₂
ACGIH	Threshold Limit Value (TLV)	3 mg/m ³ (R)

Calcium carbonate

OSHA	Permissible Exposure Limit (PEL)	15 mg/m ³ (T) 5 mg/m ³ (R)
ACGIH	Threshold Limit Value (TLV)	10 mg/m ³ (E)

Quartz silica

OSHA	Permissible Exposure Limit (PEL)	10 mg/m ³ (R) %SiO ₂ + 2
ACGIH	Threshold Limit Value (TLV)	0.05 mg/m ³ (R)

(R) Respirable fraction

(E) Particulate matter containing no asbestos and <1% crystalline silica

(T) Total dust

Additional Information

No additional information

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Brown
ODOR:	Slight odor
PHYSICAL STATE:	Viscous resinous suspension
pH:	Not available
BOILING POINT:	>200° C (392° F)
FREEZING POINT:	Not available
VAPOR PRESSURE:	Not available
VAPOR DENSITY (AIR = 1):	Not available
SPECIFIC GRAVITY (H₂O = 1):	1.78 at 25° C (77° F)
EVAPORATION RATE:	Not available
SOLUBILITY IN WATER:	Negligible
% VOLATILE BY VOLUME	Nil.
WATER/OIL PARTITION COEFFICIENT	Not available
VISCOSITY (poise @ 25° C	Not available

Additional Information

No additional information

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	This product is stable under normal conditions at ambient temperature.
INCOMPATIBILITY (MATERIAL TO AVOID):	Avoid open flames and elevated temperatures. Avoid strong acids or bases in bulk.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	Hazardous thermal degradation and combustion products include carbon monoxide, carbon dioxide, aldehydes, and acids.
HAZARDOUS POLYMERIZATION:	Will not occur.

Additional Information

Thermal degradation is not significant at temperatures achieved during proper application, as directed by product instructions.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Values

Oral LD50: (RAT) >4 g/kg; Dermal LD50: (Rabbit) >2 g/kg.

Irritancy of Product

Skin Irritation: (Rabbit) Irritant; Eye Irritation: (Rabbit) Slight Irritation.

Sensitization of Product

Moderate sensitizer

Carcinogenicity

This product contains crystalline (quartz) silica which has been listed as a known human carcinogen by NTP (Group A) and IARC (Group 1) and as a suspect human carcinogen by ACGIH (Category A2). Repeated or prolonged overexposure to free respirable crystalline (quartz) silica can cause silicosis or other delayed and serious lung injury.

Reproductive Toxicity

None known.

Teratogenicity and Embryotoxicity

None known.

Mutagenicity

Bisphenol A/Epichlorohydrin Resin is positive in *in vitro* microbial mutagenicity screening tests, and has produced chromosomal aberrations in cultured rat liver cells. It has, however, proven to be inactive when tested in *in vivo* assays.

Name of Toxicologically Synergistic Products

None known.

Additional Information

No additional information.

SECTION 12: ECOLOGICAL INFORMATION

No ecological information available.

Additional Information

No additional information

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Follow local, State/Provincial, and Federal/National regulations applicable to as-used, end-of-life characteristics to be determined by end-user. Material may be polymerized in bucket by adding 15 parts of Powercrete J60 Part B to each 100 parts of Powercrete J60 Part A by weight, or 4 parts Part A to 1 part Part B by volume, and thoroughly mix. Set outdoors until mixture is set up and cooled down.

US-EPA HAZARD CLASS: Not Applicable to finished Part A product as manufactured for distribution into commerce.

Additional Information

No additional information. This product is not expected to present a hazard when disposed under reasonable conditions of end-use and in accordance with applicable law.

SECTION 14: TRANSPORT INFORMATION**GROUND – US-DOT/CAN-TDG/EU-ADR/APEC-ADR**

Proper Shipping Name	Non-Flammable Adhesive Resin – Fully Exempt
Hazard Class	ID Number
Packing Group	Labels

AIRCRAFT – ICAO-IATA

Proper Shipping Name	Non-Flammable Adhesive Resin – Fully Exempt
Hazard Class	ID Number
Packing Group	Labels

VESSEL – IMO-IMDG

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorohydrin Resin)		
Hazard Class	9	ID Number	UN 3082
Packing Group	III	Label	Miscellaneous

Additional Information

No additional information. Note that transport requires proper packaging and paperwork, including the Nature and Quantity of goods, per applicable origin/destination/customs points as-shipped.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Section 8b – Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.

TSCA Section 12b – Export Notification: This product contains the following chemicals subject to TSCA Section 12b export notification.

<u>Chemical</u>	<u>CAS #</u>
None	

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT)

Chemicals present in the product at a level which could require reporting under the statute:

<u>Chemical</u>	<u>CAS #</u>
None	

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

This product contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III.

<u>Chemical</u>	<u>CAS #</u>
None	

CERCLA SECTION 311/312 HAZARD CATEGORIES:

Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No
Immediate Hazard	Yes
Delayed Hazard	Yes

STATE REGULATIONS

California Proposition 65

This product contains the following chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm:

<u>Chemical</u>	<u>CAS No.</u>	<u>% Wt</u>
Epichlorohydrin	106-89-8	0.0015 max.
Quartz silica	14808-60-7	0.5 – 1.5

Additional Information

No additional information. This product may be regulated under additional regulations and laws not identified above, such as for uses other than described or as-designed/as-intended by the manufacturer, or for distribution outside of the USA.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION

Not Applicable.

Sources of Information

International Agency for Research on Cancer (1987), *IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: Overall Evaluations of Carcinogenicity: An updating of IARC Monographs Volumes 1-42, Supplement 7*, Lyon, France.

American Conference of Governmental Industrial Hygienists (2004), *Threshold Limit Values for Chemical Substances and Physical Agents & Biological Indices*.



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