

M A T E R I A L S A F E T Y D A T A S H E E T

RIVER ROCK BINDER- PART A

PRODUCT NAME: RIVER ROCK BINDER- PART A
PRODUCT CODE: RRB-A-0000

HMIS CODES: H F R P
2 1 1 C

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: Polymerica, Inc.
ADDRESS : 3821 Collins Lane
Louisville, KY 40245

EMERGENCY PHONE : 1-800-535-5053 DATE PRINTED : 4/1/08
INFORMATION PHONE : 1-800-762-1678

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE MM HG @ TEMP	WEIGHT PERCENT
Bisphenol A/Epichlorohydrin Based Epoxy Resin None Established	25085-99-8	0.03	171 F 80% TO 90%
Phenol, 4-nonyl-, branched None Established	84852-15-3	5	310 F 10% TO 20%
Glycidyl Ether of C12-C14 Alcohol Epichlorohydrin: 2 ppm TLV; 5 ppm PEL	68609-97-2	.6	70 F 0% TO 10%

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 392 F - 545 F SPECIFIC GRAVITY (H2O=1): 1.1206
VAPOR DENSITY: Not Determined. EVAPORATION RATE: Heavier than air
(Air=1).

COATING V.O.C.: 0.0 lb/gl MATERIAL V.O.C.: 0.0 lb/gl
SOLUBILITY IN WATER: NIL.
APPEARANCE AND ODOR: Appearance: Moderately viscous liquid, color varies.
Odor: Mild, no characteristic odor.

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 225 METHOD USED: PMCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/D UPPER: N/D

EXTINGUISHING MEDIA: Use foam, dry chemical, CO2.

SPECIAL FIREFIGHTING PROCEDURES

Material will not burn unless preheated. Clear fire area of all non-emergency personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus. Cool surrounding equipment, fire-exposed containers and structures with water. Container areas exposed to direct flame contact should be cooled with large quantities of water (500 gallons water per minute flame impingement exposure) to prevent weakening of container structure.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Decomposition and/or products of combustion may be toxic.

===== SECTION V - REACTIVITY DATA =====

STABILITY: Normally Stable.

CONDITIONS TO AVOID

Avoid strong acids or bases in bulk and elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid contact with strong oxidizing agents, strong acids, strong bases.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Carbon monoxide, carbon dioxide, phenolic derivative.

HAZARDOUS POLYMERIZATION: Mixing large quantities (1 gallon) with amines or epoxy hardeners can cause heat build-up and hazardous reaction.

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Exposure to vapors at elevated temperatures may cause irritation to respiratory tract and difficulty breathing.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

May cause irritation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

A single exposure is unlikely to result in harm. Repeated exposure can cause sensitization.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Oral toxicity is low. No hazards expected from normal industrial exposure.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute Oral Effects(LD-50): Rat >5000 mg/kg

Acute Dermal (LD-50): Rabbit >6000 mg/kg

CARCINOGENICITY: NTP CARCINOGEN: NO IARC MONOGRAPHS: NO OSHA REGULATED: NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Skin contact may aggravate an existing dermatitis (skin condition). Overexposure to vapor, dust or mist may aggravate existing respiratory conditions such as asthma, bronchitis, and inflammatory or fibrotic respiratory disease.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush at once with potable water for at least 15 minutes.

Skin: Wash with soap and warm water. Remove contaminated clothes. Wash before reuse. Destroy contaminated shoes.

Ingestion: Not likely to occur in normal handling. Give large quantities of water and get medical attention.

Inhalation: Remove to fresh air. Administer oxygen if breathing is difficult.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Avoid contact. Soak up with clay or other absorbent material.

WASTE DISPOSAL METHOD

Place in covered container for disposal. Dispose in an approved incinerator or an approved landfill in accordance with federal, state and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Use with good ventilation. Store in cool dry area. Keep containers tightly closed when not in use. Grinding or other abrasive action to cured film may develop microcrystalline silica dust. Wear a dust mask during such operations. If mixture A & B are allowed to remain in the mixing vessel past the pot life deadline, heat and a strong reaction will result.

OTHER PRECAUTIONS

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

None needed under normal conditions of use.

VENTILATION

Use good general mechanical ventilation and local exhaust.

PROTECTIVE GLOVES

Wear neoprene or natural rubber gloves.

EYE PROTECTION

NIOSH approved safety glasses or goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Body protection as necessary to prevent skin contact. Wash after handling. Provide eye wash fountain and safety shower.

WORK/HYGIENIC PRACTICES

Avoid breathing vapor mist or spray. Provide eye wash fountain and safety shower. Wash hands thoroughly after use, before eating or smoking.

===== SECTION IX - DISCLAIMER =====

The product information contained herein is believed to be accurate as of the date of the Material Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury or property damage.

PRODUCT NAME: RIVER ROCK BINDER- PART B
PRODUCT CODE: RRB-B-0000

HMIS CODES: H F R P
3 1 0 C

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===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE MM HG @ TEMP	WEIGHT PERCENT
Phenol, 4-nonyl-, branched None Established	84852-15-3	5	310 F 30% TO 40%
Polyoxypropylenediamine None Established	9046-10-0	1	20 C 30% TO 40%
* TOFA Diethylenetriamine: OSHA PEL 4 mg/m3; ACGIH TLV 4.2 mg/m3	68953-36-6	<5.17	70 F 20% TO 30%
N-Aminoethylpiperazine None Established	140-31-8	0.05000	68.00000 0% TO 10%

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 200 F - 545 F SPECIFIC GRAVITY (H2O=1): .9603
VAPOR DENSITY: Not Determined. EVAPORATION RATE: Heavier than air
(Air=1).

COATING V.O.C.: 0.0 lb/gl MATERIAL V.O.C.: 0.0 lb/gl
SOLUBILITY IN WATER: Partial.
APPEARANCE AND ODOR: Low viscosity, clear to amber liquid with sharp ammoniacal
type odor.

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 124C METHOD USED: PMCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.7 UPPER: 5

EXTINGUISHING MEDIA: Use foam, dry chemical, CO2.

SPECIAL FIREFIGHTING PROCEDURES
Wear positive pressure self-contained breathing equipment. Use water to cool containers exposed to fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS
Toxic fumes present when this material is in fire. Containers may rupture.

===== SECTION V - REACTIVITY DATA =====

STABILITY: Normally Stable.

CONDITIONS TO AVOID

Avoid strong oxidizing agents and epoxy resins under uncontrolled conditions and elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID)

Avoid contact with acids such as Hydrochloric or Sulfuric. Avoid strong oxidizing agents and epoxy resins under uncontrolled conditions.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

When exposed to fire, oxides of carbon and nitrogen will be generated.

HAZARDOUS POLYMERIZATION:

===== SECTION VI - HEALTH HAZARD DATA =====

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Can cause severe irritation of respiratory tract.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Corrosive- Can cause burns, vapors can cause irritation.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Corrosive- Can cause burns.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Can cause severe damage to mouth and throat.

HEALTH HAZARDS (ACUTE AND CHRONIC)

CARCINOGENICITY: **NTP CARCINOGEN:** **IARC MONOGRAPHS:** **OSHA REGULATED:**

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Skin contact may aggravate an existing dermatitis (skin condition). Overexposure to vapor, dust or mist may aggravate existing respiratory conditions such as asthma, bronchitis, and inflammatory or fibrotic respiratory disease.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush immediately for 15 minutes with large amounts of potable water. Get immediate medical attention.

Skin: Flush immediately for 15 minutes with potable water. Remove contaminated clothing. Launder before reuse.

Discard contaminated shoes. Get medical attention if swelling and/or irritation occurs.

Ingestion: DO NOT induce vomiting. Give milk or water to dilute stomach contents. Get immediate medical attention.

Inhalation: Remove to fresh air. Get medical attention if effects persist.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Avoid contact. Allow only personnel wearing goggles, neoprene or rubber gloves, and protective clothing to clean up spill. In confined areas a full face respirator is recommended. Absorb spill with clay, diatomaceous earth or other absorbent material.

WASTE DISPOSAL METHOD

Place in covered container for disposal. Dispose in an approved incinerator or an approved landfill in accordance with

federal, state and local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Mechanical ventilation required if TLV is expected to be exceeded in confined areas. Avoid contact. Keep containers tightly closed when not in use. Do not remove labels from empty containers. If mixtures A & B are allowed to remain in mixing vessel past pot life deadline, heat and a strong reaction will result.

OTHER PRECAUTIONS

===== SECTION VIII - CONTROL MEASURES =====

RESPIRATORY PROTECTION

None needed under normal conditions of use.

VENTILATION

Mechanical ventilation is required if TLV is expected to be exceeded in confined areas.

PROTECTIVE GLOVES

Wear neoprene or natural rubber gloves.

EYE PROTECTION

NIOSH approved safety glasses or goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Body protection as necessary to prevent skin contact. Wash after handling. Provide eye wash fountain and safety shower.

WORK/HYGIENIC PRACTICES

Practice good industrial hygiene. Wash with soap and water before eating or smoking.

===== SECTION IX - DISCLAIMER =====

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