

PRODUCT NAME: NOVOLAC EPOXY COATING- PART FA
 PRODUCT CODE: NEC-FA-4039

HMIS CODES: H F R P
 2 1 0 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 F/Epichlorohydrin Epoxy Resin None Established	28064-14-4	0.00000	0.00000 20% TO 30%
Epoxy Phenol Novolac Resin None Established	28064-14-4	0.00000	0.00000 20% TO 30%
Bisphenol A/Epichlorohydrin Based Epoxy Resin None Established	25085-99-8	0.03	171 F 10% TO 20%
Titanium Dioxide PEL (OSHA)- TiO2- 15 mg/m3, total dust, 8 Hr. TWA TLV (ACGIH)- TiO2- 10 mg/m3, total dust, 8 Hr. TWA, A4 AEL (DuPont)- TiO2- 10 mg/m3, total dust, 8 Hr. TWA 5 mg/m3, respirable dust, 8 Hr. TWA	13463-67-7	N/A	N/A 10% TO 20%
ALIPHATIC GLYCIDYL ETHER	30499-70-8	<0.1	20 C 0% TO 10%
Titanium Dioxide Titanium dioxide: OSHA PEL 15 mg/m3; ACGIH TLV 10 mg/m3 resp. Silicone dioxide: OSHA PEL 10 mg/m3 resp.; ACGIH TLV 0.05 mg/m3 resp. Ferric Oxide: OSHA PEL 10 mg/m3; ACGIH TLV 5 mg/m3 total as fume	1317-80-2	N/A	N/A 0% TO 10%
Siloxanes & Silicones Siloxanes & silicones, di-Me, reaction products w/ silica: ACGIH 5 mg/m3 resp. 10 mg/m3 total dust.	67762-90-7	N/A	N/A 0% TO 10%
* Iron Oxide Iron oxide: ACGIH TLV 5 mg/m3 fume Manganite: ACGIH TLV 5 mg/m3 Mg dust Carbon: ACGIH TLV 3.5 mg/m3 resp. Crystalline silica: ACGIH TLV 0.1 mg/m3 resp.	1304-37-1	N/A	N/A 0% TO 10%
Distillates (petroleum), hydrotreated light TLV (ACGIH) 300 ppm	64742-47-8	1	20 C 0% TO 10%
* Glycidoxypropyl trimethoxysilane	002530-83-8	N/A	N/A 0% TO 10%
* Solvent naphtha, petroleum, light aromatic 2-Butoxyethanol: ACGIH TLV- 20 ppm skin; OSHA PEL- 25 ppm skin.	64742-95-6	3	20 C 0% TO 10%
Benzyl Alcohol Benzyl alcohol AIHA WEEL TWA- 10ppm, 44.2 mg/m3	100-51-6	0.15	68 F 0% TO 10%
Acrylate Copolymer None Established	26376-86-3	5	302 F 0% TO 10%

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)

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 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: NOVOLAC EPOXY COATING- PART FB
 PRODUCT CODE: NEC-FB-0000

HMIS CODES: H F R P
 3 1 0 C

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

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

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT
		MM HG @ TEMP		PERCENT
1,3-benzenedimethanamine 1,3-Benzenedimethanamine: OSHA PEL 0.1 mg/m3 (skin)	135470-04-1	N/A	N/A	40% TO 50%
Isophoronediamine None Established	2855-13-2	N/A	N/A	20% TO 30%
Benzyl Alcohol Benzyl alcohol AIHA WEEL TWA- 10ppm, 44.2 mg/m3	100-51-6	0.15	68 F	10% TO 20%
Bisphenol F/Epichlorohydrin Epoxy Resin None Established	28064-14-4	0.00000	0.00000	0% TO 10%
Siloxanes & Silicones Siloxanes & silicones, di-Me, reaction products w/ silica: ACGIH 5 mg/m3 resp. 10 mg/m3 total dust.	67762-90-7	N/A	N/A	0% TO 10%
Acrylate Copolymer None Established	26376-86-3	5	302 F	0% TO 10%

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

BOILING RANGE: 400 F - 401 F SPECIFIC GRAVITY (H2O=1): 1.1447
 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: 210 F METHOD USED: TCC
 FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.00000 UPPER: 0.00000

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

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

Products of combustion/decomposition include oxides of carbon and nitrogen plus amines and unidentified organic compounds.

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.

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