

CORROSION PROTECTION GROUP MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Powercrete YGE Part A
CHEMICAL/FAMILY NAME: Epoxy resin Product
PRODUCT TYPE: Liquid epoxy resins blended with fillers and pigments

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

Health	2
Flammability	1
Reactivity	0
Protective Equipment	X

SECTION II - HAZARDOUS INGREDIENTS

Specific Chemical Name:

- Oxirane, (Chloromethyl)-, Polymer with .Alpha.-Hydro-.Omega.-Hydroxypoly{Oxy(Methyl-1,2-Ethanedyl)}

CAS Number: 9072-62-2

Common Name: Polypropyleneglycol Glycidyl Ether

Exposure Limits:

OSHA PEL: Not established

ACGIH TLV: Not established

Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA.
- Phenol, 4,4'-(1-Methylethylidene) Bis-, Polymer with (Chloromethyl) Oxirane

CAS Number: 25068-38-6

Common Name: Bisphenol A Diglycidyl Ether

Exposure Limits:

OSHA PEL: Not established

ACGIH TLV: Not established

Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA.
- Phenol, 4-(1,1-Dimethylethyl)-, Polymer with (Chloromethyl) Oxirane and 4,4'-(1-Methylethylidene) Bis (Phenol)

CAS Number: 67924-34-9

Common Name: Bisphenol A Epoxy Resin
Exposure Limits:
OSHA PEL: Not established
ACGIH TLV: Not established
Carcinogenicity: This chemical has not been reviewed for carcinogenicity by
NTP, IARC, or OSHA.

SECTION III - PHYSICAL DATA

Appearance and Odor: very viscous liquid, slight odor.
Boiling Point: Greater than 392°F (200°C).
Percent Volatile: Nil.
Solubility in Water: Negligible.
Specific Gravity: 1.78 at 77°F (25°C).

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: Greater than 200°F (93°C) closed cup.
Extinguishing Media: Carbon dioxide, foam, dry chemical, water spray.
Fire Fighting Procedures - Special: Use self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Decomposition and combustion products may be toxic.

SECTION V - REACTIVITY DATA

Stability: Stable.
Conditions to Avoid: Open flames and elevated temperature.
Incompatibility: oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, aldehydes, acids.
Hazardous Polymerization: Will not occur.
Materials to Avoid: Strong acids or bases in bulk.

SECTION VI - HEALTH HAZARD DATA

Primary Routes of Exposure: Dermal.
Oral LD50: (Rat) Greater than 4 g/kg.
Dermal LD50: (Rabbit) Greater than 2 g/kg.
Skin Irritation: (Rabbit) Irritant.
Eye Irritation: (Rabbit) Slight irritation.
Sensitization: Moderate sensitizer.
Overexposure Effects: Irritation, sensitization, dermatitis.
Medical Conditions Aggravated by Exposure: Eye disorders, allergy, eczema, or skin conditions.
Emergency and First Aid Procedures:

Eyes: Immediately flush eyes with large amounts of running water for at least 15 minutes.
Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water.
Get immediate medical attention.

Skin: Wash with large amounts of running water and soap for at least 15 minutes.
Remove contaminated clothing and shoes. Get immediate medical attention.

Ingestion: Discard or decontaminate clothing before reuse and destroy contaminated shoes. Immediately give at least 3-4 glasses of water, but do not induce vomiting. If vomiting occurs, give water again. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention. Have physician determine whether vomiting or stomach evacuation is necessary.

Inhalation: Remove from area to fresh air and provide oxygen. Get immediate medical attention. Other: Promptly remove wet contaminated non-impervious clothing, wash before reuse.

SECTION VII - SPILL OR LEAK PROCEDURES

Spill Procedures: Absorb with sand or other absorbent material. Shovel into closable containers for disposal. Wear protective equipment specified below. Flush contaminated area with water. Dispose in accordance with Federal, State, and local regulations.

Waste Disposal Methods: Polymerize in bucket. Add 11 parts of Powercrete YGE Part B to each 100 parts of Powercrete YGE Part A by weight and thoroughly mix. Set outdoors until the mixture is set up and cooled down, dispose in accordance with Federal, State, and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation: Good general mechanical ventilation and local exhaust.

Protective Gloves: Wear impervious gloves.

Eye Protection: Wear splash-proof chemical goggles.

Respiratory Protection: Organic chemical cartridge respirator, if needed.

Other Protective Equipment: Wear appropriate equipment to prevent eye or skin contact. Use of barrier cream recommended.

SECTION IX - SPECIAL PRECAUTIONS

Emergency Overview: WARNING!
Causes irritation, can cause sensitization and allergic skin reaction.
Avoid contact with eyes, skin, and clothing.
Avoid breathing vapor, mist, or spray.
Use only with good ventilation.
Individuals should wash thoroughly after handling.
Store in cool, dry area in closed containers.
Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.
FOR INDUSTRIAL USE ONLY.

SECTION X - REGULATORY INFORMATION

OSHA Status: This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

TSCA Inventory Status: Chemical components listed on TSCA Inventory.

TSCA 12(b) Export Notification: This product contains chemical(s) which is (are) regulated by TSCA 12(b) Regulation and it is required that proper export notification shall be sent to EPA prior to shipping out of the United States of America.

CAS Number: 001675-54-3

Chemical Name: Bisphenol A Diglycidyl Ether

USEPA TSCA Inventory Status:

CAS Number: 67762-90-7

Chemical Name: Hydrophobic Silicon Dioxide, Synthetic

Comments: This product does not contain class 1 or 2 ozone depleting chemical as defined in the clean air act of 1990.

SARA Title III: Section 313 - Toxic Chemicals: This product does not contain a toxic chemical for routine annual 'Toxic Chemical Release Reporting' under Sec. 313 (40 CFR 372).

RCRA: Not a hazardous waste under RCRA (40 CFR 261).

CERCLA: Not listed.

Canadian Inventory Status (CEPA): All components included on the Domestic Substances List (DSL).

New Jersey Right-to-Know: The following is required composition information:

CAS Number: 25068-38-6

Chemical Name: Phenol, 4,4'-(1-Methylethylidene) Bis-, Polymer with (Chloromethyl) Oxirane

Pennsylvania Right-to-Know: The following is required composition information:

CAS Number : 25068-38-6

Chemical Name: Phenol, 4,4'-(1-Methylethylidene) Bis-, Polymer with (Chloromethyl) Oxirane

Common Name: Bisphenol A Diglycidyl Ether

Comment: Not on Pennsylvania Hazardous Substance List.

PREPARATION INFORMATION

DATE OF ISSUE: June 7, 2008


SUPERSEDES: July 3, 2006

DISCLAIMER

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The information presented herein was prepared at Berry Plastics by qualified technical personnel, and to our knowledge it is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for this purpose. The data do not constitute a warranty, expressed or implied, statutory or otherwise, nor are they a representation for which Berry Plastics assumes legal responsibility. The data are submitted for the user's information and consideration only. Any use of this product must be determined by the user to be in accordance with the applicable federal, state, and local laws and regulations.

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CORROSION PROTECTION GROUP MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Powercrete YGE Part B
CHEMICAL/FAMILY NAME: Modified polyamine
PRODUCT TYPE: Epoxy hardener

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

Health	3
Flammability	1
Reactivity	1
Protective Equipment	X

SECTION II - HAZARDOUS INGREDIENTS

Specific Chemical Name:

- Specific chemical identity of this component is confidential.
CAS Number: Proprietary
Common Name: Modified amine
Exposure Limits:
OSHA PEL: Not established
ACGIH TLV: Not established
Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA.
- Trimethylhexamethylenediamine
CAS Number: 25620-58-0
Common Name: Not available
Exposure Limits:
OSHA PEL: Not established
ACGIH TLV: Not established
Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA.
- Phenol
CAS Number: 108-95-2
Common Name: Not available
Exposure Limits:
OSHA PEL: 5 ppm, skin
ACGIH TLV: 5 ppm, skin

Carcinogenicity: This chemical has not been reviewed for carcinogenicity by NTP, IARC, or OSHA.

SECTION III - PHYSICAL DATA

Appearance and Odor: Clear liquid, amine odor.
Boiling Point: Greater than 392°F (200°C).
Decomposition Temperature: Greater than 392°F (200°C).
Solubility in Water: Slightly miscible.
Specific Gravity: 8.2 lbs/gallon at 77°F (25°C).
Vapor Pressure: 0.3 mm Hg at 68°F (20°C).
pH: 11.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: Greater than 200°F (93°C) closed cup.
Extinguishing Media: Carbon dioxide, foam, dry chemical, water spray.
Fire Fighting Procedures - Special: Use self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Decomposition and combustion products may be toxic.

SECTION V - REACTIVITY DATA

Stability: Stable.
Incompatibility: Strong oxidizers and acids.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides.
Hazardous Polymerization: Will not occur.

SECTION VI - HEALTH HAZARD DATA

Primary Routes of Exposure: Dermal.
Oral LD50: (Rat) 1030 mg/kg.
Dermal LD50: (Rat) 699 mg/kg (component) (Toxic by skin contact).
Inhalation LC50: (Rat) > 0.18 mg/l air 4 hours. No deaths at 14 days.
Sensitization: Potential sensitizer. (Guinea pig) No sensitization observed.
Skin Irritation: Corrosive. Causes burns.
Eye Irritation: Corrosive. Causes burns.
Medical Conditions Aggravated by Exposure: Allergy, eczema, or skin conditions.
Overexposure Effects: Overexposure can cause chemical burns to the skin and eyes and may result in blindness. Vapors may be severely irritating to the respiratory tract. Considered to be a dermal toxicant. May affect the central nervous system, liver, and kidneys.
Emergency and First Aid Procedures:
Eyes: Immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If physician is not available, flush for an additional 15 minutes. Get immediate medical attention.
Skin: Under a safety shower, immediately remove contaminated clothing and shoes. Wash affected areas thoroughly with large amounts of water, and soap if available, for at least 15 minutes. Get immediate medical attention.

Discard or decontaminate clothing before reuse and destroy contaminated shoes.

- Ingestion: Immediately give at least 3-4 glasses of water, but do not induce vomiting. If vomiting occurs, give fluids again. Do not give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.
- Inhalation: Remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen.
- Other: Promptly remove wet contaminated non-impervious clothing, wash before reuse. Destroy contaminated leather and absorbent shoes.

SECTION VII - SPILL OR LEAK PROCEDURES

Spill Procedures: Avoid all personal contact. Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water.

Waste Disposal Methods: Polymerize in bucket. Add 100 parts of Powercrete YGE Part A to each 11 parts of Powercrete YGE Part B by weight and thoroughly mix. Set outdoors until the mixture is set up and cooled down, dispose in accordance with Federal, State, and local regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation: Good general mechanical ventilation and local exhaust.

Protective Gloves: Wear impervious gloves.

Eye Protection: Wear splash-proof chemical goggles.

Respiratory Protection: Organic chemical cartridge respirator, if needed.

Other Protective Equipment: Wear appropriate equipment to prevent probability of skin or eye contact.

SECTION IX - SPECIAL PRECAUTIONS

Emergency Overview: WARNING!

Corrosive to eyes and skin.

Harmful if absorbed through skin.

May cause dermatitis and sensitization and have effects on the central nervous system, liver, and kidneys.

Avoid contact with eyes, skin, and clothing.

Do not breathe vapor, mist, or spray.

Store in tightly closed containers in dry area.

Use only with adequate ventilation.

Individuals should wash thoroughly after handling.

FOR INDUSTRIAL USE ONLY.

SECTION X - REGULATORY INFORMATION

DOT: Proper Shipping Name: Trimethylhexamethylenediamine mixture
Hazard Class: DOT/IATA/ICAO: 8

IMDG/IMO: 8

ID Number: UN 2327

Packing Group : III

Label Required: Corrosive

OSHA Status: This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

TSCA Inventory Status: Chemical components listed on TSCA Inventory.
SARA/Title III: Section 313 – Toxic Chemicals: This product is (or contains) a toxic chemical for routine annual 'Toxic Chemical Release Reporting' under Sec. 313 (40 CFR 372).

108-95-2 Phenol 14.3% concentration This information must be included on all MSDS's that are copied and distributed for this material.

RCRA: Not a hazardous waste under RCRA (40 CFR 261).

CERCLA: RQ 7000 lbs (U188).

Canadian Inventory Status (CEPA): All components included on the Domestic Substances List (DSL).

New Jersey Right-to-Know: The following is required composition information:

1. Generic Name: Modified amine NJ Number: 29943300001-5707P
2. Chemical Name: Phenol
CAS Number: 108-95-2
3. Chemical name: Trimethylhexamethylenediamine
CAS Number: 25620-58-0

Pennsylvania Right-to-Know: The following is required composition information:

1. Chemical Name: Phenol
CAS Number: 108-95-2
Comments: Environmental hazard
2. Chemical Name: Confidential
Generic Name: Modified amine
Comments: Not on Pennsylvania Hazardous Substance List.
3. Chemical Name: Trimethylhexamethylenediamine
CAS Number: 25620-58-0
Comments: Not on Pennsylvania Hazardous Substance List.

PREPARATION INFORMATION


DATE OF ISSUE: June 7, 2008 SUPERSEDES: July 3, 2006

DISCLAIMER

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The information presented herein was prepared at Berry Plastics by qualified technical personnel, and to our knowledge it is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for this purpose. The data do not constitute a warranty, expressed or implied, statutory or otherwise, nor are they a representation for which Berry Plastics assumes legal responsibility. The data are submitted for the user's information and consideration only. Any use of this product must be determined by the user to be in accordance with the applicable federal, state, and local laws and regulations.

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