



**DERBIGUM**<sup>®</sup>  
MAKING BUILDINGS SMART

## Material Safety Data Sheet

**Product: DERBIGUM EPC Surface Component A**

**MSDS Date:** 6-30-10  
**Product Name:** DERBIGUM EFP Surface Component A  
**Manufacturer:** DERBIGUM Americas, Inc.

### I. Product and Company Description

DERBIGUM Americas, Inc.  
4821 Chelsea Ave.  
Kansas City, MO 64130

**Emergency Phone Number:**  
(800) 424-9300 CHEMTREC

**For Product Information:**  
(800) 541-5455

**Product Description:**  
Sealing/Coating

### II. Chemical Composition

Component	CAS#	%Composition
Bisphenol A - Epichlorohydrin polymer	25068-38-6	25-50
Phenol, polymer with formaldehyde, glycidyl ether	28064-14-4	10-25
Alkyl (C12-14) glycidyl ether	68609-97-2	2.5-10
Stoddard solvent	8052-41-3	<0.5
polyamineamid-salt	Not Available	<0.5

### III. Hazards Identification

#### A. Emergency Overview:

**Physical Appearance and Odor:**  
Fluid with characteristic odor.

#### B. Potential Health Effects:

**Acute Eye:**  
Contact may cause irritation.

**Acute Skin:**  
Contact with skin may cause irritation and sensitization.

**Acute Inhalation:**  
Inhalation may cause irritation and sensitization.



### Product: DERBIGUM EPC Surface Component A

**Acute ingestion:**

Harmful or fatal if swallowed.

**Chronic effects:**

ND

### IV. First Aid Measures

#### First Aid Measures for Accidental Exposure:

**Eye Exposure:**

Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**Skin Exposure:**

Wash affected area with soap and water; remove contaminated clothing and wash before reuse. Get medical attention if irritation develops or persists.

**Inhalation:**

Remove to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

**Ingestion:**

Seek medical attention immediately. Never give anything by mouth to an unconscious person.

### V. Fire Fighting Measures

#### Fire Hazard Data:

**Flash Point:** 101°C (214°F)

**Ignition Temperature:** Product is not self-igniting

**Flammability Limits (vol/vol%):** Lower: ND Upper: ND

**Extinguishing Media:**

Use appropriate media for surrounding fire.

**Special Fire Fighting Procedures:**

None

**Unusual Fire and Explosion Hazards:**

None

**Hazardous Decomposition Materials (Under Fire Conditions):**

None



**Product: DERBIGUM EPC Surface Component A**

**VI. Accidental Release Measures**

**Cleanup and Disposal of Spill:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not allow product to reach sewage system or any water course. Do not allow to penetrate ground or soil. Dispose of materials according to the applicable Federal, State, or local regulations.

**VII. Handling and Storage**

**Handling:**

Ensure good ventilation/exhaustion at the workplace. Prevent aerosol formation. Keep away from sources of ignition. Protect against electrostatic charges.

**Storage:**

Store away from foodstuffs. Store in cool, dry conditions in well sealed receptacles. Recommended storage temperature is 5°-30°C.

**VIII. Exposure Controls / Personal Protection**

**Exposure Guidelines:**

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Bisphenol A - Epichlorohydrin polymer	ND	ND	ND
Phenol, polymer with formaldehyde, glycidyl ether	ND	ND	ND
Alkyl (C12-14) glycidyl ether	ND	ND	ND
Stoddard solvent	100 ppm TWA	350 mg/m3 TWA 1800 mg/m3 Ceiling (15 min)	100 ppm TWA; 525 mg/m3 TWA
polyamineamid-salt	ND	ND	ND

**Engineering Controls:**

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS.

**Respiratory Protection:**

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or EN approved respirator when necessary.

**Eye / Face Protection:**

Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

**Skin Protection:**

Chemical resistant gloves recommended, such as neoprene or nitrile rubber. Body covering clothing should be utilized.



**Product: DERBIGUM EPC Surface Component A**

**IX. Physical and Chemical Properties**

<b>Physical Appearance:</b>	Fluid
<b>Odor:</b>	Characteristic
<b>pH:</b>	ND
<b>Specific Gravity:</b>	1.62456 g/cm <sup>3</sup>
<b>Water Solubility:</b>	Not miscible or difficult to mix
<b>Melting Point Range:</b>	ND
<b>Boiling Point:</b>	>200°C (>392°F)
<b>Vapor Pressure:</b>	ND
<b>Vapor Density:</b>	ND
<b>%Volatile by volume:</b>	ND
<b>Evaporation Rate:</b>	ND

**X. Stability and Reactivity**

**Chemical Stability:**

Stable under standard use and storage conditions.

**Conditions to Avoid:**

None

**Materials / Chemicals to be Avoided:**

None

**Hazardous Decomposition Products:**

None

**Hazardous Polymerization:**

Should not occur.

**XI. Toxicological Information**

**Component Analysis - LD50/LC50**

**Bisphenol A - Epichlorohydrin polymer (25068-38-6)**

Oral LD50 Rat: 11400 mg/kg

**Alkyl (C12-14) glycidyl ether (68609-97-2)**

Oral LD50 Rat: 17100 mg/kg

**Chronic Toxicity:**

ND

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

**XII. Ecological Information**

**Ecotoxicological Information:**

No ecotoxicity data are available for this product's components.



**Product: DERBIGUM EPC Surface Component A**

**Chemical Fate Information:**  
Not Determined

**XIII. Disposal Considerations**

**Waste Disposal Method:**  
Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

**Container Handling and Disposal:**  
Dispose of container and unused contents in accordance with federal, state, and local regulations.

**XIV. Transportation Information**

**US Department of Transportation Shipping Name:**

<b>US Department of Transportation</b>	<b>Proper Shipping Name</b>	Environmentally Hazardous Substance, Liquid, n.o.s (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin)
	<b>Hazard Class</b>	9
	<b>ID Number</b>	UN3082
	<b>Packaging Group</b>	III

**XV. Regulatory Information**

**Federal Regulations:**

**SARA Title III Hazard Classes:**  
 Fire Hazard: Yes  
 Reactive Hazard: NO  
 Release of Pressure: NO  
 Acute Health Hazard: Yes  
 Chronic Health Hazard: NO

**SARA Section References:**  
 Section 302 (RQ)  
 None  
 Section 302 (TPQ)  
 None  
 Section 313  
 None

**Toxic Substances Control Act (TSCA):** All components are included in the inventory or are not required to be listed.



**Product: DERBIGUM EPC Surface Component A**

**Other Regulations:**

**State:**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Stoddard solvent	8052-41-3	Yes	Yes	Yes	Yes	Yes	Yes

California Prop. 65: None

**XVI. Other Information**

**National Fire Protection Association Hazard Ratings – NFPA(R):**

Health Hazard: 1  
 Flammability: 1  
 Reactivity: 0

**Key Legend Information:**

N/A – Not Applicable  
 ND – Not Determined  
 ACGIH – American Conference of  
 Governmental Industrial Hygienists  
 OSHA – Occupational Safety and Health  
 Administration

TLV – Threshold Limit Value  
 PEL – Permissible Exposure Limit  
 TWA – Time Weighted Average  
 STEL – Short Term Exposure Limit  
 NTP – National Toxicology Program  
 IARC – International Agency for Research on  
 Cancer

**The information contained herein is based on the data available to us and is believed to be correct. However DERBIGUM Americas, Inc. makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.**



**Product: DERBIGUM EPC Surface Component B**

**MSDS Date:** 6-30-10  
**Product Name:** DERBIGUM EPC Surface Component B  
**Manufacturer:** DERBIGUM Americas, Inc.

**I. Product and Company Description**

DERBIGUM Americas, Inc.  
4821 Chelsea Ave.  
Kansas City, MO 64130

**Emergency Phone Number:**  
(800) 424-9300 CHEMTREC

**For Product Information:**  
(800) 541-5455

**Product Description:**  
Sealing/Coating

**II. Chemical Composition**

Component	CAS#	%Composition
p-tert-Butyl phenol	98-54-4	25-50
m-Xylene- $\alpha$ , $\alpha'$ -diamine	1477-55-0	25-50
Benzyl alcohol	100-51-6	25-50
3-(Dimethylamino)-propylamine	109-55-7	2.5-10
Amines, coco alkyl	61788-46-3	2.5-10
Trimethylhexamethylenediamine	25620-58-0	2.5-10

**III. Hazards Identification**

**A. Emergency Overview:**

**Physical Appearance and Odor:**  
Fluid with characteristic odor.

**B. Potential Health Effects:**

**Acute Eye:**  
Contact may cause irritation.

**Acute Skin:**  
Contact with skin may cause irritation and sensitization.

**Acute Inhalation:**  
Inhalation may cause irritation and sensitization.



**Product: DERBIGUM EPC Surface Component B**

**Acute ingestion:**

Harmful or fatal if swallowed.

**Chronic effects:**

ND

**IV. First Aid Measures**

**First Aid Measures for Accidental Exposure:**

**Eye Exposure:**

Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**Skin Exposure:**

Wash affected area with soap and water; remove contaminated clothing and wash before reuse. Get medical attention if irritation develops or persists.

**Inhalation:**

Remove to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

**Ingestion:**

Seek medical attention immediately. Never give anything by mouth to an unconscious person.

**V. Fire Fighting Measures**

**Fire Hazard Data:**

**Flash Point:** 101°C (214°F)

**Ignition Temperature:** 435°C (815°F)

**Flammability Limits (vol/vol%):** Lower: 1.3 Upper: 13.0

**Extinguishing Media:**

Use appropriate media for surrounding fire.

**Special Fire Fighting Procedures:**

None

**Unusual Fire and Explosion Hazards:**

None

**Hazardous Decomposition Materials (Under Fire Conditions):**

None





**Product: DERBIGUM EPC Surface Component B**

**VI. Accidental Release Measures**

**Cleanup and Disposal of Spill:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not allow product to reach sewage system or any water course. Do not allow to penetrate ground or soil. Dispose of materials according to the applicable Federal, State, or local regulations.

**VII. Handling and Storage**

**Handling:**

Ensure good ventilation/exhaustion at the workplace. Prevent aerosol formation. Keep away from sources of ignition. Protect against electrostatic charges.

**Storage:**

Store away from foodstuffs. Store in cool, dry conditions in well sealed receptacles. Recommended storage temperature is 5°-30°C.

**VIII. Exposure Controls / Personal Protection**

**Exposure Guidelines:**

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
p-tert-Butyl phenol	ND	ND	ND
m-Xylene- $\alpha$ , $\alpha'$ -diamine	0.1 mg/m <sup>3</sup> Ceiling Skin - potential significant contribution to overall exposure by the cutaneous route	0.1 mg/m <sup>3</sup> Ceiling Potential for dermal absorption	0.1 mg/m <sup>3</sup> Ceiling Prevent or reduce skin absorption
Benzyl alcohol	ND	ND	ND
3-(Dimethylamino)-propylamine	ND	ND	ND
Amines, coco alkyl	ND	ND	ND
Trimethylhexamethylenediamine	ND	ND	ND

**Engineering Controls:**

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS.

**Respiratory Protection:**

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or EN approved respirator when necessary.

**Eye / Face Protection:**

Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

**Skin Protection:**

Chemical resistant gloves recommended, such as neoprene or nitrile rubber. Body covering clothing should be utilized.



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## Material Safety Data Sheet

**Product: DERBIGUM EPC Surface Component B**

### IX. Physical and Chemical Properties

<b>Physical Appearance:</b>	Fluid
<b>Odor:</b>	Characteristic
<b>pH:</b>	ND
<b>Specific Gravity:</b>	1.04 g/cm <sup>3</sup>
<b>Water Solubility:</b>	Not miscible or difficult to mix
<b>Melting Point Range:</b>	ND
<b>Boiling Point:</b>	205°C (401°F)
<b>Vapor Pressure:</b>	0.1 hPa
<b>Vapor Density:</b>	ND
<b>%Volatile by volume:</b>	ND
<b>Evaporation Rate:</b>	ND

### X. Stability and Reactivity

**Chemical Stability:**

Stable under standard use and storage conditions.

**Conditions to Avoid:**

None

**Materials / Chemicals to be Avoided:**

None

**Hazardous Decomposition Products:**

None

**Hazardous Polymerization:**

Should not occur.

### XI. Toxicological Information

**Component Analysis - LD50/LC50**

**Benzyl alcohol (100-51-6)**

Inhalation LC50 Rat: 8.8 mg/L/4H; Oral LD50 Rat:1230 mg/kg; Dermal LD50 Rabbit:2000 mg/kg

**m-Xylene- $\alpha$ ,  $\alpha'$ -diamine (1477-55-0)**

Inhalation LC50 Rat: 700 ppm/1H; Oral LD50 Rat:930 mg/kg; Dermal LD50 Rabbit:2000 mg/kg

**p-tert-Butyl phenol (98-54-4)**

Oral LD50 Rat: 2990 mg/kg; Dermal LD50 Rabbit:2318 mg/kg

**Trimethylhexamethylenediamine (25620-58-0)**

Oral LD50 Rat: 910 mg/kg

**Amines, coco alkyl (61788-46-3)**

Oral LD50 Rat: >2000 mg/kg; Dermal LD50 Rat:>2000 mg/kg

**3-(Dimethylamino)-propylamine (109-55-7)**



**Product: DERBIGUM EPC Surface Component B**

Inhalation LC50 Rat: >4.31 mg/L/4H; Oral LD50 Rat:922 mg/kg; Dermal LD50 Rabbit:600 µL/kg

**Chronic Toxicity:**  
ND

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

**XII. Ecological Information**

**Ecotoxicological Information:**

**Benzyl alcohol (100-51-6)**

**Test & Species**

96 Hr LC50 Pimephales promelas	460 mg/L [static]
96 Hr LC50 Lepomis macrochirus	10 mg/L [static]
3 Hr EC50 Anabaena variabilis	35 mg/L
48 Hr EC50 water flea	23 mg/L

**Conditions**

**p-tert-Butyl phenol (98-54-4)**

**Test & Species**

96 Hr LC50 Pimephales promelas	4.71-5.62 mg/L [flow-through]
96 Hr LC50 Cyprinus carpio	6.9 mg/L [static]
72 Hr EC50 Scenedesmus subspicatus	11.2 mg/L
48 Hr EC50 Daphnia magna	3.9 mg/L

**Conditions**

**Trimethylhexamethylenediamine (25620-58-0)**

**Test & Species**

48 Hr LC50 Leuciscus idus	172 mg/L [static]
72 Hr EC50 Scenedesmus subspicatus	29.5 mg/L

**Conditions**

**Amines, coco alkyl (61788-46-3)**

**Test & Species**

96 Hr LC50 Oncorhynchus mykiss	0.16 mg/L [semi- static]
96 Hr LC50 Brachydanio rerio	0.24 mg/L [static]
96 Hr EC50 Scenedesmus subspicatus	0.0008 mg/L

**Conditions**

**3-(Dimethylamino)-propylamine (109-55-7)**

**Test & Species**

96 Hr LC50 Leuciscus idus	122 mg/L [static]
72 Hr EC50 Scenedesmus subspicatus	56.2 mg/L
96 Hr EC50 Scenedesmus subspicatus	57.5 mg/L

**Conditions**

**Chemical Fate Information:**

Not Determined



**Product: DERBIGUM EPC Surface Component B**

**XIII. Disposal Considerations**

**Waste Disposal Method:**

Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

**Container Handling and Disposal:**

Dispose of container and unused contents in accordance with federal, state, and local regulations.

**XIV. Transportation Information**

**US Department of Transportation Shipping Name:**

<b>US Department of Transportation</b>	<b>Proper Shipping Name</b>	Corrosive Liquid, n.o.s (benzyl alcohol)
	<b>Hazard Class</b>	8
	<b>ID Number</b>	UN1760
	<b>Packaging Group</b>	III

**XV. Regulatory Information**

**Federal Regulations:**

**SARA Title III Hazard Classes:**

Fire Hazard: Yes  
 Reactive Hazard: NO  
 Release of Pressure: NO  
 Acute Health Hazard: Yes  
 Chronic Health Hazard: NO

**SARA Section References:**

Section 302 (RQ)  
 None  
 Section 302 (TPQ)  
 None  
 Section 313  
 None

**Toxic Substances Control Act (TSCA):** All components are included in the inventory or are not required to be listed.

**Other Regulations:**

**State:**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Benzyl alcohol	100-51-6	No	Yes	Yes	No	Yes	No
m-Xylene- $\alpha, \alpha'$ -diamine	1477-55-0	Yes	Yes	Yes	Yes	Yes	Yes
Trimethylhexamethylenediamine	25620-58-0	No	No	No	Yes	No	No



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## Material Safety Data Sheet

**Product: DERBIGUM EPC Surface Component B**

3-(Dimethylamino)-propylamine	109-55-7	No	Yes	No	Yes	Yes	No
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California Prop. 65: None

**XVI. Other Information**

**National Fire Protection Association Hazard Ratings – NFPA(R):**

Health Hazard: 3  
Flammability: 1  
Reactivity: 0

**Key Legend Information:**

N/A – Not Applicable  
ND – Not Determined  
ACGIH – American Conference of  
Governmental Industrial Hygienists  
OSHA – Occupational Safety and Health  
Administration

TLV – Threshold Limit Value  
PEL – Permissible Exposure Limit  
TWA – Time Weighted Average  
STEL – Short Term Exposure Limit  
NTP – National Toxicology Program  
IARC – International Agency for Research on  
Cancer

**The information contained herein is based on the data available to us and is believed to be correct. However DERBIGUM Americas, Inc. makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.**