



**Product: DERBIGUM BC5 PRIMER Component A**

**MSDS Date:** 6-30-10  
**Product Name:** DERBIGUM BC5 Primer 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:**  
Priming

**II. Chemical Composition**

Component	CAS#	%Composition
Bisphenol A(epichlorhydrin) epoxy resin	25068-38-6	50-100
Bisphenol F (epichlorhydrin)	28064-14-4	10-25
Oxirane, mono [C12-114-alkyloxy)methyl]	68609-97-2	10-25

**III. Hazards Identification**

**A. Emergency Overview:**

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

**B. Potential Health Effects:**

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

**Acute Skin:**  
May cause irritation and skin sensitization.

**Acute Inhalation:**  
May irritate the upper respiratory tract if inhaled.

**Acute ingestion:**  
Harmful or fatal if swallowed.



**Product: DERBIGUM BC5 PRIMER Component A**

**Chronic effects:**  
None

**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:** NA

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

**Extinguishing Media:**

Use appropriate extinguishing media appropriate for surrounding fire.

**Special Fire Fighting Procedures:**

If excessive fumes or smoke is encountered, wear self-contained breathing apparatus and full protective equipment.

**Unusual Fire and Explosion Hazards:**

None

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

Not Determined

**VI. Accidental Release Measures**

**Cleanup and Disposal of Spill:**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal. Do not allow product to reach sewage system or



**Product: DERBIGUM BC5 PRIMER Component A**

water bodies. Use protective measures as outlined in Section VIII below. Avoid contact with eyes, skin or clothing.

Dispose of materials according to the applicable Federal, State, or local regulations.

**VII. Handling and Storage**

**Handling:**

Keep container tightly closed. Avoid skin and eye contact. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8.

**Storage:**

Store away from foodstuffs and in a cool, well-ventilated area.

**VIII. Exposure Controls / Personal Protection**

**Exposure Guidelines:**

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Bisphenol A(epichlorhydrin) epoxy resin	ND	ND	ND
Bisphenol F (epichlorhydrin)	ND	ND	ND
Oxirane, mono [C12-114-alkyloxy)methyl]	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.

**IX. Physical and Chemical Properties**

<b>Physical Appearance:</b>	Liquid
<b>Odor:</b>	Characteristic
<b>pH:</b>	ND
<b>Specific Gravity:</b>	1.13
<b>Water Solubility:</b>	Not miscible
<b>Melting Point Range:</b>	ND



**Product: DERBIGUM BC5 PRIMER Component A**

**Boiling Point:** >200°C (>392°F)  
**Vapor Pressure:** ND  
**Vapor Density:** ND  
**%Volatile by volume:** ND  
**Evaporation Rate:** 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**

**Acute Oral Toxicity:**  
For Oxirane, mono [C12-114-alkyloxy)methyl]: LD50: >10000 mg/kg (rabbit)

**Acute Dermal Toxicity:**  
For Bisphenol A(epichlorhydrin) epoxy resin: LD50: 11400 mg/kg (rat); >2000 mg/kg (rabbit)

**Acute Inhalation Toxicity:**  
ND

**Chronic Toxicity:**  
ND

**XII. Ecological Information**

**Ecotoxicological Information:**  
Degradation: Not Determined  
Accumulation: Not Determined  
Fish-Toxicity: For Bisphenol A(epichlorhydrin) epoxy resin  
EC50-OECD202: 1.1-3.6 mg/l (Daphnia Magna)  
EC50-OECD209: 220 mg/l (Grunalge)  
LC50-OECD203: 1.5-7.7 mg/l (oncorhynchus mykiss)

For Oxirane, mono [C12-114-alkyloxy)methyl]  
EC50-OECD202: 1-10 mg/l (Daphnia Magna)



**Product: DERBIGUM BC5 PRIMER 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 (Bisphenol A(epichlorhydrin) epoxy resin, Bisphenol F (epichlorhydrin))
	<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: NO  
Reactive Hazard: NO  
Release of Pressure: NO  
Acute Health Hazard: YES  
Chronic Health Hazard: YES

**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 components identified with an X are present on the respective state's Right To Know lists:



**Product: DERBIGUM BC5 PRIMER Component A**

Component	MA	PA	MI	MN	CA	NJ
Bisphenol A(epichlorhydrin) epoxy resin						
Bisphenol F (epichlorhydrin)						
Oxirane, mono [C12-114-alkyloxy)methyl]						

California Prop. 65: None of the chemicals in this product are listed.

**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.**



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## Material Safety Data Sheet

### Product: DERBIGUM BC5 Primer Component B

**MSDS Date:** 6-30-10  
**Product Name:** DERBIGUM BC5 Primer 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:**  
Priming

### II. Chemical Composition

Component	CAS#	%Composition
Benzyl Alcohol	100-51-6	25-50
m-phenylenebis(methylamine)	1477-55-0	25-50
4-tert-butylphenol	98-54-4	25-50
Trimethylhexane-1,6-diamine	25620-58-0	2.5-10
Amines, coco alkyl	61788-46-3	2.5-10
3-aminopropyldimethylamine	109-55-7	2.5-10

### III. Hazards Identification

#### **A. Emergency Overview:**

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

#### **B. Potential Health Effects:**

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

**Acute Skin:**  
May cause burns, irritation and skin sensitization.

**Acute Inhalation:**  
May irritate the upper respiratory tract if inhaled.



**Product: DERBIGUM BC5 Primer Component B**

**Acute ingestion:**

Harmful or fatal if swallowed.

**Chronic effects:**

None

**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

**Extinguishing Media:**

Use appropriate extinguishing media appropriate for surrounding fire.

**Special Fire Fighting Procedures:**

If excessive fumes or smoke is encountered, wear self-contained breathing apparatus and full protective equipment.

**Unusual Fire and Explosion Hazards:**

None

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

Not Determined





**Product: DERBIGUM BC5 Primer Component B**

**VI. Accidental Release Measures**

**Cleanup and Disposal of Spill:**

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal. Do not allow product to reach sewage system or water bodies. Use protective measures as outlined in Section VIII below. Avoid contact with eyes, skin or clothing.

Dispose of materials according to the applicable Federal, State, or local regulations.

**VII. Handling and Storage**

**Handling:**

Keep container tightly closed. Avoid skin and eye contact. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8.

**Storage:**

Store away from foodstuffs and in a cool, well-ventilated area.

**VIII. Exposure Controls / Personal Protection**

**Exposure Guidelines:**

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Benzyl Alcohol	ND	ND	ND
m-phenylenebis(methylamine)	ND	ND	ND
4-tert-butylphenol	ND	ND	ND
Trimethylhexane-1,6-diamine	ND	ND	ND
Amines, coco alkyl	ND	ND	ND
3-aminopropyldimethylamine	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.

**IX. Physical and Chemical Properties**



**Product: DERBIGUM BC5 Primer Component B**

<b>Physical Appearance:</b>	Liquid
<b>Odor:</b>	Characteristic
<b>pH:</b>	ND
<b>Specific Gravity:</b>	1.01
<b>Water Solubility:</b>	Not miscible
<b>Melting Point Range:</b>	ND
<b>Boiling Point:</b>	>200°C (>392°F)
<b>Vapor Pressure:</b>	0.1 hPa (0 mm Hg)
<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**

**Acute Oral Toxicity:**  
For Benzyl Alcohol: LD50: 1230 mg/kg (rat)  
For m-phenylenebis(methylamine): LD50: 1040 mg/kg (rat)

**Acute Dermal Toxicity:**  
For Benzyl Alcohol: LD50: 2000 mg/kg (rabbit)  
For m-phenylenebis(methylamine): LD50: 2000 mg/kg (rabbit)

**Acute Inhalation Toxicity:**  
For Benzyl Alcohol: LC 50/4h: 4178 mg/l (rat)  
For m-phenylenebis(methylamine): LC 50/4h: 2.4 mg/l (rat)

**Chronic Toxicity:**  
ND

**XII. Ecological Information**

**Ecotoxicological Information:**  
For Benzyl Alcohol  
Degradation: Not Determined



**Product: DERBIGUM BC5 Primer Component B**

Accumulation: Not Determined  
 Fish-Toxicity: EC0: 400 mg/l (Daphnia Magna)  
 EC50-OECD202: 645 mg/l (Leuciscus Idus)  
 LC50-OECD203: 10 mg/l (Lepomus Macrochirus);

**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>	Corrosive Liquid, N.O.S (Triethylenetetramine, Isophoronediamine)
	<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: NO  
 Reactive Hazard: NO  
 Release of Pressure: NO  
 Acute Health Hazard: YES  
 Chronic Health Hazard: YES

**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 BC5 Primer Component B**

**Other Regulations:**

**State:**

The components identified with an X are present on the respective state's Right To Know lists:

Component	MA	PA	MI	MN	CA	NJ
Benzyl Alcohol						
m-phenylenebis(methylamine)						
4-tert-butylphenol						
Trimethylhexane-1,6-diamine						
Amines, coco alkyl						
3-aminopropyldimethylamine						

California Prop. 65: None of the chemicals in this product are listed.

**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  
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