



Product: DERBIGIUM KDC Surface Component A

MSDS Date: 6-30-10
Product Name: DERBIGUM KDC 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:
Urethane Prepolymer Solution

II. Chemical Composition

Component	CAS#	%Composition
Polyether Prepolymer (Isocyanate) Solution	NA	65
Naptha, Light Aromatic Solvent	64742-95-6	20
N-Butyl Acetate	123-86-4	14
Isophorone Di-isocyanate	4098-71-9	<1

III. Hazards Identification

A. Emergency Overview:

Physical Appearance and Odor:
Clear liquid with sweet, perfume-like odor.

B. Potential Health Effects:

Acute Eye:
Contact may cause severe damage. Vapor may irritate.

Acute Skin:
May cause dermal sensitization. May be absorbed through skin.

Acute Inhalation:
Inhalation may cause headache, dizziness, nausea and irritation. Inhalation of spray mist may be toxic.

Acute ingestion:
Harmful or fatal if swallowed.



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Material Safety Data Sheet

Product: DERBGIUM KDC Surface Component A

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: 97°F

Method Used: Closed Cup (ASTM D50).

Ignition Temperature: ND

Flammability Limits (vol/vol%):

Lower: 0.9

Upper: 6.0

Extinguishing Media:

Carbon dioxide; dry chemical; foam

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:

Sealed containers may build up pressure if exposed to heat (fire). Water can be used to cool the exterior of the containers.

Hazardous Decomposition Materials (Under Fire Conditions):

Oxides of carbon and nitrogen, possible HCN and polyurethane combustion compounds.



Product: DERBIGIUM KDC Surface Component A

VI. Accidental Release Measures

Cleanup and Disposal of Spill:

Cover with a layer of sand or other suitable absorbent. 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:

CAUTION: flammable liquid. Keep away from all sources of ignition. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid contact with moisture.

Storage:

None

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Polyether Prepolymer (Isocyanate) Solution	ND	ND	ND
Naptha, Light Aromatic Solvent	ND	ND	ND
N-Butyl Acetate	150 ppm TWA 200 ppm STEL	150 ppm (710 mg/m ³) TWA, 200 ppm (950 mg/m ³) STEL	150 ppm; 710 mg/m TWA
Isophorone Di-isocyanate	TWA (0.005 ppm)	ND	REL: 0.005 ppm (0.045 mg/m ³) TWA (skin), 0.02 ppm (0.18 mg/m ³) STEL (skin)

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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IX. Physical and Chemical Properties

Physical Appearance:	Clear liquid
Odor:	Sweet, perfume-like odor
pH:	Neutral
Specific Gravity:	0.93
Water Solubility:	Insoluble
Melting Point Range:	ND
Boiling Point:	312°F
Vapor Pressure:	10
Vapor Density:	4.8
%Volatile by volume:	56%
Evaporation Rate:	0.25

X. Stability and Reactivity

Chemical Stability:

Stable under standard use and storage conditions.

Conditions to Avoid:

Excessive heat and/or wet conditions.

Materials / Chemicals to be Avoided:

Water (moisture); alcohols; amines; strong acids and bases.

Hazardous Decomposition Products:

Oxides of carbon and nitrogen, possible HCN and polyurethane combustion compounds.

Hazardous Polymerization:

Should not occur.

XI. Toxicological Information

Acute Oral Toxicity:

For Naptha: LD50: 2000 mg/kg (rat)

Acute Dermal Toxicity:

For Naptha: LD50: 2000 mg/kg (rat)

Acute Inhalation Toxicity:

For Naptha: LC50/4h: 5 mg/l (rat)

Chronic Toxicity:

ND

XII. Ecological Information

Ecotoxicological Information:

Degradation: Not Determined



Product: DERBGIUM KDC Surface Component A

Accumulation: Not Determined
Fish-Toxicity: Not Determined

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:

US Department of Transportation	Proper Shipping Name	Paint
	Hazard Class	3
	ID Number	UN 1263
	Packaging Group	III

XV. Regulatory Information

Federal Regulations:

SARA Title III Hazard Classes:

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

SARA Section References:

Section 302 (RQ)
For Diisocyanates: The Reportable Quantity (RQ) is 100 lbs.
Section 302 (TPQ)
For Diisocyanates: The Threshold Planning Quantity (TPQ) is 100 lbs.
Section 313

This category is on the list of toxic chemicals subject to reporting under Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA), also called the Toxic Release Inventory (TRI). Listed Category: Diisocyanates. Listed Name: Isophorone diisocyanate.

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



Product: DERBIGIUM KDC Surface Component A

Other Regulations:

State:

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

Component	MA	PA	MI	NJ
Polyether Prepolymer (Isocyanate) Solution				
Naptha, Light Aromatic Solvent				
N-Butyl Acetate	X	X		X
Isophorone Di-isocyanate	X	X		X

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: 2
Flammability: 2
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 KDC Surface Component B

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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:
Acrylic/Pigment Dispersion

II. Chemical Composition

Component	CAS#	%Composition
Titanium Dioxide	13463-67-7	27.1
Aromatic 100	64742-95-6	23.7
Chlorinated Paraffin	8002-74-2	38.6
Antimony Trioxide	1309-64-4	10.6

III. Hazards Identification

A. Emergency Overview:

Physical Appearance and Odor:
Paste with acetate odor.

B. Potential Health Effects:

Acute Eye:
Direct contact may cause burning, tearing, redness or swelling.

Acute Skin:
Irritant to skin. Prolonged or repeated contact may cause defatting and/or dermatitis.

Acute Inhalation:
Irritant to respiratory tract. Prolonged breathing of vapors may cause headache, dizziness, or nausea.

Acute ingestion:
May cause irritation of the digestive tract; drowsiness; dizziness; loss of coordination; fatigue.



Product: DERBIGUM KDC Surface Component B

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: 102°F

Method Used: ND

Ignition Temperature: ND

Flammability Limits (vol/vol%): Lower: 1.0 Upper: 6.0

Extinguishing Media:

Carbon dioxide; dry chemical; water fog.

Special Fire Fighting Procedures:

Do not use water, except as foam.

Unusual Fire and Explosion Hazards:

Keep away from excessive heat or open flame.

Hazardous Decomposition Materials (Under Fire Conditions):

Combustion will produce carbon dioxide, carbon monoxide, and HCl.

VI. Accidental Release Measures

Cleanup and Disposal of Spill:

Cover with a layer of sand or other suitable absorbent. Use protective measures as outlined in Section VIII below. Avoid contact with eyes, skin or clothing.



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

VII. Handling and Storage

Handling:

CAUTION: flammable liquid. Keep away from all sources of ignition. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid contact with moisture.

Storage:

None

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Titanium Dioxide	10 mg/m ³ TWA total dust	ND	15 mg/m ³ TWA total dust
Aromatic 100	ND	ND	ND
Chlorinated Paraffin	ND	ND	ND
Antimony Trioxide	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

Physical Appearance:	Paste
Odor:	Acetate odor
pH:	NA
Specific Gravity:	1.61
Water Solubility:	Insoluble
Melting Point Range:	ND
Boiling Point:	312°F
Vapor Pressure:	10



Product: DERBIGUM KDC Surface Component B

Vapor Density: 4.8
%Volatile by volume: 45%
Evaporation Rate: <1.0

X. Stability and Reactivity

Chemical Stability:

Stable under standard use and storage conditions.

Conditions to Avoid:

Excessive heat and open flames.

Materials / Chemicals to be Avoided:

None.

Hazardous Decomposition Products:

Carbon dioxide and possibly carbon monoxide.

Hazardous Polymerization:

Should not occur.

XI. Toxicological Information

Acute Oral Toxicity:

For Aromatic 100: LD50: 2000 mg/kg (rat)

Acute Dermal Toxicity:

For Aromatic 100: LD50: 2000 mg/kg (rat)

Acute Inhalation Toxicity:

For Aromatic 100: LC50/4h: 5 mg/l (rat)

Chronic Toxicity:

ND

XII. Ecological Information

Ecotoxicological Information:

Degradation: Not Determined
Accumulation: Not Determined
Fish-Toxicity: Not Determined

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.



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Container Handling and Disposal:

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

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US Department of Transportation Shipping Name:

US Department of Transportation	Proper Shipping Name	Paint
	Hazard Class	3
	ID Number	UN 1263
	Packaging Group	III

XV. Regulatory Information

Federal Regulations:

SARA Title III Hazard Classes:

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

SARA Section References:

Section 302 (RQ)
 None of the chemicals in this material have an RQ.
 Section 302 (TPQ)
 None of the chemicals in this product have a TPQ.
 Section 313
 None of the components in this substance is listed under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) (also referred to as the Toxics Release Inventory (TRI)).

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:

Component	MA	PA	MI	NJ
Titanium Dioxide	X	X		X
Aromatic 100				
Chlorinated Paraffin				
Antimony Trioxide				



Product: DERBIGUM KDC Surface Component B

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:	2
Flammability:	2
Reactivity:	0

Key Legend Information:

N/A – Not Applicable
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